



भारत का राजपत्र

The Gazette of India

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

सं० 5] नई दिल्ली, शनिवार, फरवरी 3, 1996 (माघ 14, 1917)
No. 5] NEW DELHI, SATURDAY, FEBRUARY 3, 1996 (MAGHA 14, 1917)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएँ और नोटिस
[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE
PATENTS AND DESIGNS

Calcutta, the 03rd February 1996

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1—447 GI/95

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All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

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पेटेंट कार्यालय

एकत्र तथा अभिकल्प

कलकत्ता, दिनांक 3 फरवरी 1996

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ते में अवस्थित है तथा बम्बई, दिल्ली एवं मद्रास में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रदर्शित हैं।

पेटेंट कार्यालय शाखा, टांडी इस्टेट
तीसरा तल, लांजर परेले (पश्चिम),
बम्बई-400013।

गुजरात, महाराष्ट्र तथा मध्य प्रदेश, राज्य क्षेत्र एवं संघ शासित क्षेत्र गाँवा, दमन तथा दीव एवं दादरा और नगर हवेली।

तार पता-“पेटोफिस”

पेटेंट कार्यालय शाखा,
एकक सं. 401 से 405, तीसरा तल,
मगरपालिका बाजार भवन,
सरस्वती मार्ग, करोल बाग,
मई दिल्ली-110005।

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब राजस्थान तथा उत्तर प्रदेश राज्य क्षेत्रों एवं संघ शासित क्षेत्र चण्डीगढ़ तथा दिल्ली।

तार पता-“पेटेंटोफिस”

पेटेंट कार्यालय शाखा,
61, बालासाह रोड,
मद्रास-600002।

आन्ध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य क्षेत्र एवं संघ शासित क्षेत्र पाण्डिचेरी, लक्षद्वीप, मिनिक्काय तथा एमिनिविदि द्वीप।

तार पता-“पेटोफिस”

पेटेंट कार्यालय (प्रधान कार्यालय),
निजाम पैलेस, द्वितीय बहुतलीय कार्यालय,
भवन, 5, 6 तथा 7वाँ तल,
234/4, आचार्य जगदीश बोस रोड,
कलकत्ता-700020।

भारत का अवशेष क्षेत्र।

तार पता-“पेटेंट्स”

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपेक्षित सभी आवेदन पत्र, सूचनाएं, विवरण या अन्य प्रलेख पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में ही प्राप्त किये जायेंगे।

नोट—शुल्कों की अदायगी या तो नकद की जायगी अथवा उपयुक्त कार्यालय में नियंत्रक को भुगतान योग्य धनादेश अथवा डाक आदेश या जहाँ उपयुक्त कार्यालय अवस्थित है; उस स्थान के अनुमति प्राप्त बैंक से नियंत्रक को भुगतान योग्य बैंक ड्राफ्ट अथवा बैंक द्वारा की जा सकती है।

The 21st December, 1995

LIST OF HOLIDAYS FOR THE YEAR—“1996”.

No. A-45111/1/95-A.1m.1.—The following days have been declared as Holidays to be observed by the Patent Office, Calcutta during the year 1996.

Sl. No.	Holidays & Connected Festivals	Month and date	Days of the week.
01.	SREE PANCHAMI	JAN 24	WEDNESDAY
02.	REPUBLIC DAY	JAN 26	FRIDAY
03.	IDUR FITR	FEB 21	WEDNESDAY
04.	HOLI	MAR 5	TUESDAY
05.	MAHAVIR JAYANTI	APR 1	MONDAY
06.	GOOD FRIDAY	APR 5	FRIDAY
07.	IDU'L ZUHA	APR 29	MONDAY
08.	BUDDHA PURNIMA	MAY 5	FRIDAY
09.	MUHARRAM	MAY 28	TUESDAY
10.	MILAD-UN-NABI OR ID-E-MILAD (BIRTHDAY OF PROFET MOHAMMAD)	JUL 29	MONDAY
11.	INDEPENDENCE DAY	AUG 15	THURSDAY
12.	JANMASHAMMI (VAISNAVA)	SEP 5	THURSDAY
13.	MAHATMA GANDHI'S BIRTHDAY	OCT 2	WEDNESDAY
14.	DUSSEHRA (VJAYA DASHAMI)	OCT 21	MONDAY
15.	DIWALI (DEEPAVALI)	NOV 10	SUNDAY
16.	GURU NANAKS BIRTHDAY	NOV 25	MONDAY
17.	CHRISTMAS DAY	DEC 25	WEDNESDAY

(H.D. THAKUR)

Jt. Controller of Patents & Designs.

Dated : 21st December, 1995.

LIST OF RESTRICTED HOLIDAYS FOR THE YEAR 1996.

N/45011/1/95 - In addition to the declared Holidays, each members of the staffs of this office may also be permitted to avail any two holidays to be chosen by him/her out of the Restricted Holidays given below, after giving prior intimation.

Sl. No.	Restricted Holidays Connected Festivals.	Month & Date	Date of the Week.
01.	New Year's Day	Jan. 1	Monday
02.	Shab-i-Barat	Jan. 7	Sunday
03.	Makrادی Snana, Makara Samkranti, Pengal (S. India)	Jan. 15	Monday
04.	Netaji's Birthday	Jan. 23	Tuesday
05.	Guru Ravi Das's Birthday	Feb. 4	Sunday
06.	Birthday of Swami Dayananda Saraswati (founder of Arya Samaj)	Feb. 14	Wednesday
07.	Jumatu'l Vida	Feb. 16	Friday
08.	Mahasivaratri/Shab-i-qadr	Feb. 17	Saturday
09.	Birthday of Sri Ramkrishna	Feb. 20	Tuesday
10.	Holi/Bahar	Mar. 6	Wednesday
11.	Chaitra Suktadi (Gudi, Padava, Ugadi, Cheti Chand)	Mar. 20	Wednesday
12.	Jamshedi Naoroj (Parsi)	Mar. 21	Thursday
13.	Ramanavami	Mar. 28	Thursday
14.	Easter (Holy) Saturday	Apr. 6	Saturday
15.	Vaisaki (Punjab)	Apr. 13	Saturday
16.	Meshadi	Apr. 13	Saturday
17.	Vaisakhadi (Bengal), Bahag Bihu/Dr. B.R. Ambedkar's Birthday	Apr. 14	Sunday
18.	Sivaji Jayanti	Apr. 19	Friday
19.	Birthday of Rabindranath	May 8	Wednesday
20.	Jamatri Sasthi (Bengal)	May 23	Thursday
21.	Ratha Yatra	Jul. 17	Wednesday
22.	Naga Panchami	Aug. 19	Monday
23.	Parsi New Year's Day	Aug. 22	Thursday
24.	Onam (Thiru Onam Day)	Aug. 27	Tuesday
25.	Fatiha Yazdahum	Aug. 27	Tuesday
26.	Raksha Bandhan	Aug. 28	Wednesday
27.	Amarnath Yatra	Aug. 28	Wednesday
28.	Sri Krishan Jayanti	Sep. 4	Wednesday
29.	Jewish New Year's Day	Sep. 14	Saturday
30.	Biswakarma Puja	Sep. 16	Monday
31.	Ganesh Chaturthi	Sep. 16	Monday
32.	Mahalaya Amavasya	Oct. 12	Saturday
33.	Durga Puja (Maha Saptami)	Oct. 19	Saturday
34.	Durga Puja (Maha Ashtami)	Oct. 20	Sunday
35.	Durga Puja (Maha Navami)	Oct. 21	Monday
36.	Kojagari Lakshmi Puja	Oct. 26	Saturday
37.	Maharshi Valmiki's Birthday	Oct. 26	Saturday
38.	Lakshmi Puj./Makar San kanti	Nov. 10	Sunday
39.	Govardhan Puja	Nov. 11	Monday
40.	Kartika Sukladi	Nov. 12	Tuesday
41.	Bhalduj/Bharati Dwitiya	Nov. 12	Tuesday
42.	Jagadhatri Puja	Nov. 19	Tuesday
43.	Pushkar Fair	Nov. 25	Monday
44.	Hazarat Ali's birthday	Nov. 25	Monday
45.	Guru Teg Bahadur's Martyrdom Day	Dec. 15	Sunday
46.	Shab-i-Barat	Dec. 26	Thursday

H.D. THAKUR
Jt. Controller of Patents & Designs

APPLICATION FOR PATENT FILED AT THE
HEAD OFFICE, 234/4, ACHARYA JAGDISH
BOSE ROAD, CALCUTTA-20

The dates shown in the crecent bracket are the dates claimed under section 135, of the Patent Act, 1970.

The 30th October 1995

- 1333/Cal/95. Cuwas Phiroze Nazir. Birobic bike.
- 1334/Cal/95. Daewoo Electronics Co. Ltd. Objective lens driving apparatus. (Convention No. 94-28298; filed on 31/10/94 in Korea).
- 1335/Cal/95. Daewoo Electronics Co. Ltd. Video Signal Coding system employing segmentation technique.
- 1336/Cal/95. Daewoo Electronics Co. Ltd. Apparatus for measuring a pulse duration.
- 1337/Cal/95. David Liou. Circulatable ladder. (Convention No. 08/342,211; on 18/11/94; in U.S.A.).
- 1338/Cal/95. Austel Licensing GmbH. Process for Automatically dialling telephone numbers and a device to realise the process.
- 1339/Cal/95. Nur Advanced Technologies Ltd. Apparatus and method for duplex printing.
- 1340/Cal/95. Johnson & Johnson Medical, Inc. Liquid Repellent sterilizable material. (Convention No. 08/333,848; on 03/11/94; in U.S.A.).
- 1341/Cal/95. PPG Industries, Inc. Cationic resin and capped polyisocyanate curing agent suitable for use in electrodeposition. (Convention No. 08/334 712; on 04/11/94; in U.S.A.).
- 1342/Cal/95. Molex Incorporated. Shielded braided wire Cable, and method of making the same. (Convention No. 297965/1994; filed on 7/11/94 in Japan.
- 1343/Cal/95. Janssen Pharmaceutical N. V. Substituted Tetracyelic Azepine Derivatives. (Convention Nos. 94203178.2 & 08/457,968; on 2/11/94 & 31-5-95; in P.P.O. & U.S.A.).
- 1344/Cal/95. Janssen Pharmaceutical N.V. Cisapride Extended Release. (Convention No. 94.203.184.0, filed on 02/11/94 in E.P.O.).
- 1345/Cal/95. Eli Lilly and Company. Method for treating anxiety. (Convention Nos. 08/332,186 & 08/336,454; on 31/10/94; in 09/11/94; in U.S.A.).
- 1346/Cal/95. Eli Lilly and Company. Method for treating anxiety. (Convention Nos. 08/332, 186; 08/336,589; filed on 31/10/94; & 09/11/94; in U.S.A.).
- 1347/Cal/95. Eli Lilly and Company. Method for treating Anxiety. (Convention No. 08/332,186; on 31/10/94; in U.S.A.).
- 1348/Cal/95. Reckitt & Colman of India Limited. An applicator for storage and dispensing of liquids.
- 1349/Cal/95. Cancelled.
- 1350/Cal/95. Siemens Aktiengesellschaft. Monitoring system for an industrial plant. (Convention No. P4438854.3; filed on 2/11/94 in Germany).
- 1351/Cal/95. Siemens Aktiengesellschaft. Method for the analysis of process data of an industrial plant. (Convention No. P4438859.4; on 2/11/94; in Germany).
- 1352/Cal/95. The University of Queensland. Process for forming alumino-silicate derivatives. (Convention No. PN0121; filed on 16/11/94; in Australia).

- 1353/Cal/95. Tredegar Industries Inc. Absorbent composite for use in absorbent disposable products. (Convention No. 08/326,224; filed on 22/12/94; in U.S.A.).
- 1354/Cal/95. Mohsin Al-Tameem. Device for excision of a Fistula and method of using same. (Convention No. 08/341, 187 on 18/11/94; in U.S.A.).
- 1355/Cal/95. The University of Queensland. Alumino-silicate Derivatives. (Convention No. PN0121; on 16/12/94; in Australia).
- 1356/Cal/95. The Joseph Company. Heat exchange unit for self-cooling beverage containers. (Convention No. 9422479.7; on 08/11/94; in U.K.).

The 31st October 1995

- 1357/Cal/95. Bina Metal way Ltd. Improved toggle spring device.
- 1358/Cal/95. United Biomedical Inc. Peptides effective for diagnosis and detection of hepatitis c infection.
- 1359/Cal/95. Daewoo Electronics Co., Ltd. Tree Structured Binary arithmetic coder.
- 1360/Cal/95. L.A. I.C.A. Lavorazione Italiana Casalinghi S.n.c di Zumberlan Teresa & C. A vessel for filtering liquids, Particularly drinking water.
- 1361/Cal/95. Daewoo Electronics Co. Ltd. Optical Disc with a plurality of recording layers. (Convention No. 94-28328; in Korea; on 31/10/94).
- 1362/Cal/95. Daewoo Electronics Co. Ltd. Airbag deployment control apparatus for vehicle and the method. (Convention No. 94-28168; on 31/10/94 in Korea).
- 1363/Cal/95. Great Lakes chemical corporation. Process for production of 1, 1, 1, 3, 3, 3-Hexafluoropropane. (Convention No. 08/338, 036; on 14/11/94; in U.S.A.).
- 1364/Cal/95. Trutzschler GmbH & Co. Kg. Apparatus on a Jaw frame, for measuring the thickness of a fibre silver combustion. (Convention No. 19528384.4; filed on 3/8/95; in Germany).
- 1365/Cal/95. Siemens Aktiengesellschaft. Plant for generating steam according to the natural circulation principle and method of initiating the water circulation in such a plant. (Convention No. P4441008.5; filed on 17/11/94; in Germany).
- 1366/Cal/95. E. I. Du Pont De Nemours and Company. Continuous polymerization process for polyamides. (Convention No. 344,804 on 23/11/94; in U.S.A.).
- 1367/Cal/95. E. I. Du Pont De Nemours and Company. Catalyzed vapor phase hydrocyanation of diolefinic compounds. (Convention No. 08/324,195; on 18/11/94; in U.S.A.).
- 1368/Cal/95. E. I. Du Pont De Nemours and Company. Hollow fiber identification. (Convention Nos. 459,189 & 158945; on 2/6/95 & 2/6/95; in U.S.A.).
- 1369/Cal/95. E. I. Du Pont De Nemours and Company. Fiber Identification. (Convention Nos. 399284 460434 & 458944; on 6/3/95; 2/6/95 & 2/6/95 in U.S.A.).
- 1370/Cal/95. Roquette Freres. Polyol Composition, process for its preparation and its applications.
- 1371/Cal/95. Thomson Consumer Electronics, Inc. Apparatus for Demodulating and decoding satellite Terrestrial and cable transmitted digital television data. (Convention Nos. 342,280 & 501,752; filed on 18/11/94 & 12/7/95; in U.S.A.).

The 1st November 1995

1372/Cal/95. Eaton Corporation. Circuit breaker using bimetal of thermal-magnetic trip to sense current. (Convention No. 336,391; on 8/11/94; in U.S.A.).

1373/Cal/95. Cytec Technology Corp. Blends of hydroxamated polymer emulsions with polyacrylate emulsions. (Convention No. 08/334,300; on 4/11/94; in U.S.A.).

1374/Cal/95. Patent-Treuhand-Gesellschaft Fur Elektrische Gluhlampen MbH. Low-Pressure discharge lamp. (Convention No. P445532.1; on 20/12/94; in Germany).

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the Applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month, applied for on Form-14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, given notice to the Controller of Patents at the appropriate office on the prescribed Form-15, of such opposition. The written statement of opposition should be filed alongwith the said notice or within one month of its date as prescribed in Rule-36 of the Patents Rules, 1972.

The classifications given below in respect of each specification are according to Indian Classification and International Classification.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta or the appropriate Branch Office on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by two to get the charges as the copying charges per page is Rs. 2/-.

स्वीकृत सम्पूर्ण विनिर्देश

एतद्वारा यह सूचना दी जाती है कि सम्बद्ध आवेदनों में से किसी पर पेटेंट अनुदान के विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्गम की तिथि से चार (4) महीने या अगुम ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विहित प्रपत्र 14 पर आवेदित एक महीने की अवधि से अधिक न हो, के भीतर को भी नियन्त्रक, एकरव को उपयुक्त कार्यालय में ऐसे विरोध की सूचना विहित प्रपत्र 15 पर दे सकते हैं। विरोध सम्बन्धी लिखित वक्तव्य, उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथा विहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अन्तर्राष्ट्रीय वर्गीकरण के अनुरूप है।

रूपांकन (चित्र आरेखों) की फोटो प्रतियां यदि कोई हो, के साथ विनिर्देशों को टंकित अथवा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकत्ता अथवा उपयुक्त शाखा कार्यालय द्वारा विहित लिप्यान्तरण प्रभार जिसे उक्त कार्यालय से पत्र व्यवहार द्वारा सुनिश्चित करने के उपरान्त उसकी अदायगी पर की जा सकती है विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने

नीचे दर्शित चित्र आरेखों कागजों को जोड़कर उसे 2 से गुणा करके, (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 2/- रु. है) फोटो लिप्यान्तरण प्रभार का परिकल्पन किया जा सकता है।

Ind. Cl. : 50 A Gr. [VII] (1)

176101

Int. Cl. : A 47 J - 41/06.

AN IMPROVED CONTAINER FOR SERVICE CHILLED DRINKS.

Applicants : EAGLE FLASK INDUSTRIES LIMITED
AN INDIAN COMPANY AT TALEGAON 410 507, DISTRICT - PUNE, MAHARASHTRA STATE, INDIA.

Inventor : NAUSHAD ISMAIL PADAMSEE.

Application for Patent No. 208/Bom/92 filed on 01-07-92.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Bombay-13.

02 Claims

An improved container for serving chilled drinks comprising :

a double walled body consisting of an inner wall of heat conductive material and an spaced apart outer wall of heat insulating material, the said inner and outer walls of heat conductive material and an spaced apart outer wall of heat insulating material, the said inner and outer walls being hermetically sealed to each other to define a gap in there between, the said body being closed at one end and defining a mouth at the other end, the said outer wall being provided with an aperture for charging the said gap between the two walls of the body with a cryogenic substance; the said aperture being provided with a gap heat absorbing stopper for tightly fitting thereinto, and a heat insulator lid, hermetically sealing the said mouth of the body, the said lid having an inner collar fitting inside the mouth of the container and a flange resting at the free ends of the walls of the said container; the said lid being provided with an integral grip for manoeuvring the said lid, and a handle being moulded with the outer wall of the said container.

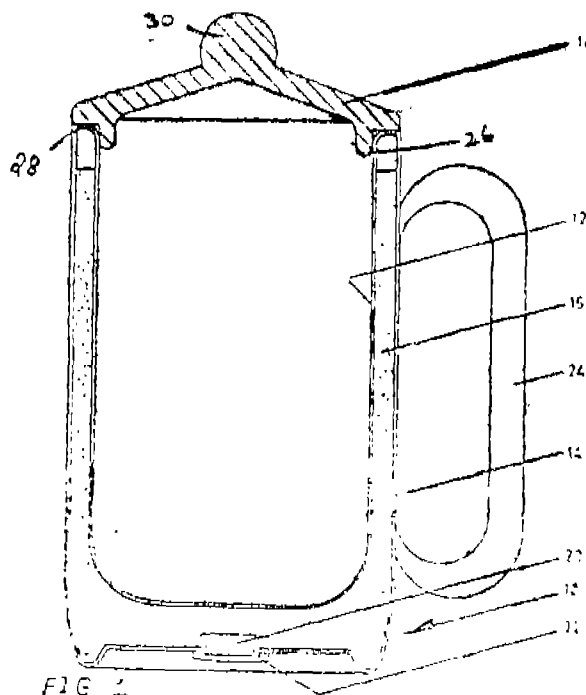


FIG 1

Compl. specn 05 pages;

Drawn. 01 sheet

Ind. Cl. : 50 A Gr. [VII (1)]

176102

Int. Cl. : A 47 J - 41/02.

AN IMPROVED VACUUM FLASK.

Applicants : EAGLE FLASK INDUSTRIES LIMITED
AN INDIAN COMPANY AT TALEGAON-410 507, MAHARASHTRA STATE, INDIA.

Inventor : NAUSHAD ISMAIL PADAMSEE.

Application to Patent No. 209/Bom/1992 filed on 01-07-92.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Bombay-13.

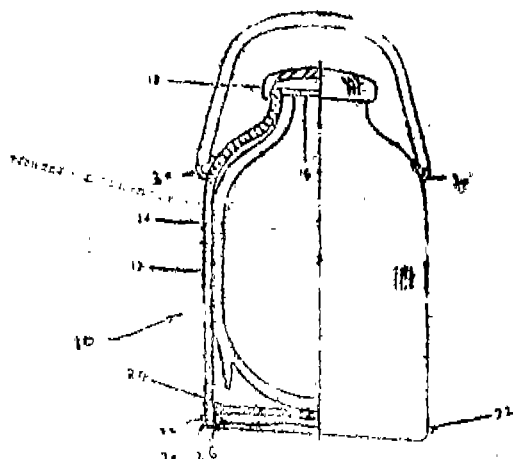
02 Claims

An improved vacuum flask comprising :

a vacuum refill tube closed at bottom end and defining a mouth at the top end

a lid means or covering the said mouth and

a shell for removably retaining the said tube, the said shell being formed by weaving together strips of agricultural based material such as cane, bamboo or grass to form a shell open at both ends and corresponding to the shape and size of the said vacuum refill tube in which the said vacuum refill tube can be snugly lodged by inserting the tube through the bottom end and having at least one pair of apertures opposite to each other and adjacent to the said bottom end, for inserting an elongated element there-through for removably retaining thereabove an end plate made of agricultural based material and the said vacuum refill tube in the said shell and a pair of ring means made of agricultural based material being provided to encircle the said elongate element being provided to encircle the said elongated element abutting the inner surface of the said shell at its bottom end to prevent accidental displacement of the elongated element.



Compl. specn. 06 pages;

Drgns. 02 sheets

Ind. Cl. : 190 D Gr. [LXVI (9)]

176103

Int. Cl. : F 03 D - 3/00.

A DEVICE FOR CONVERTING KINETIC ENERGY OF WIND, WATERFLOW OR THE LIKE FLUID FLOW IN MECHANICAL/ELECTRICAL ENERGY.

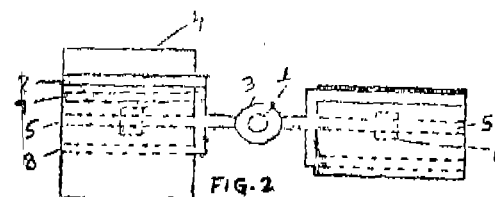
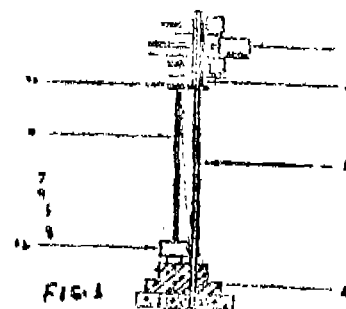
Applicant & Inventor : RAGHUVIR SINGH HADA
GULABGARH, 40, SETHUNAGAR, UJJAIN (M. P.) PIN-456 010, INDI, INDIAN NATIONAL.

Patent Application No. 273/Bom/1992 filed on 07-09-1992.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Bombay-13.

05 Claims

A device, or converting kinetic energy of wind, water flow or the like fluid flow into mechanical/electrical energy, comprising of a pole rigidly fixed into a foundation, a shaft rotatably connected to the said pole, a plurality of tilting blades being provided on the said shaft, at least two blades being at the same height and opposite to each other, each blades being eccentrically mounted on a middle bar extending radially from the said shaft, the said middle bar being provided with a hinge or bush for eccentrically attaching thereon the back-side of the said blade, a top bar radially extending from the shaft being provided above the said middle bar at the front side of the blade, a bottom bar radially extending from the shaft being provided below the said middle bar at the back-side of the blade a gear box with out-put shaft being connected to the said shaft for utilising the rotational power of the shaft in a known manner.



Compl. specn. 08 pages;

Drgns. 3 sheets

Ind. Cl. 102C, Gr. [XXIX (1)] & 101 E, Gr. [XXVIII 2)]

176104

Int. Cl. : G 01 F - 1/00.

FLOW MEASURING DEVICE.

Applicant & Inventor : INDIAN NATIONAL, OF 122/3
ERANDAVANA, ANURAG APARTMENTS, PUNE-411004,
MAHARASHTRA STATE, INDIA.

Application No. : 278/Bom/92 filed on 11-09-92.

Complete after Provisional filed on 04-10-93.

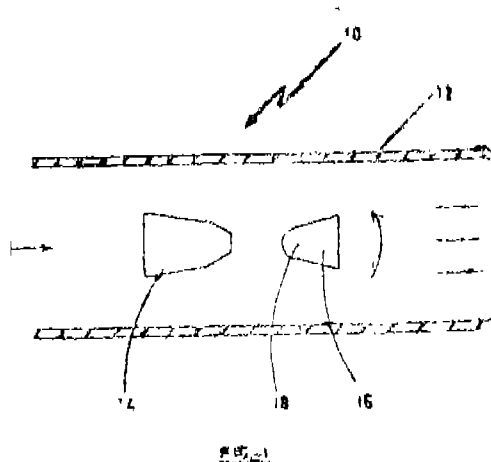
Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent office Branch, Bombay-400 013.

02 Claims

A flow measuring device comprising a flow tube for carrying fluid whose flow is to be measured; a vortex generating body disposed in the interior of the said tube; and

a sensor pivoted at a point behind the vortex generating body relative to the direction of flow of fluid through the tube, said sensor adapted to oscillate on its pivot due to the vortices being formed and broken on either side of the vortex generating body, the oscillations being capable of being picked up in a

conventional manner as herein described, the frequency of oscillations being directly proportional to the flow rate of fluid.



Provisional specification 04 pages

Drgn. 01 sheet

Compl. specn. 07 pages

Drgn. 01 sheet

Ind. Cl. : 102 C, Gr. (XXIX (1))
101 F, Gr. (XXVIII (2))

176105

Int. Cl. : G 01 F - 1/66, 1/56, 1/00, 1/32.

A FLOW MEASURING DEVICE.

Applicant & Inventor : AVINASH SHRIKRISHNA VAIDYA, INDIAN NATIONAL, OF 122/3, ERANDAVANA ANURAG APARTMENTS, PUNE-411 004, MAHARASHTRA, INDIA.

Application No. 279/Bom/1992 filed on 11-09-1992.

Date of filing complete after provisional : 28-07-1993.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent office Branch, Bombay-400 013.

13 Claims

A flow measuring device comprising of :

- a flow tube to carry a fluid to be measured;
- a vortex-generating body; at least partly disposed in the interior of the said tube;
- at least one pair of electrodes axially placed on either side of the vortex-generating body; and/or on the sides of the tube;
- a magnetic field producing device for inducing a magnetic field around the vortex-generating body by the production of vortices created by the flow of fluid across the vortex-generating body and

means for sensing the altered state of the magnetic field induced around the vortex generating body, as herein described with reference to Figure 9 of the accompanying drawing.

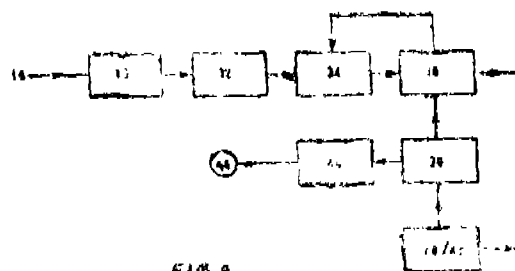
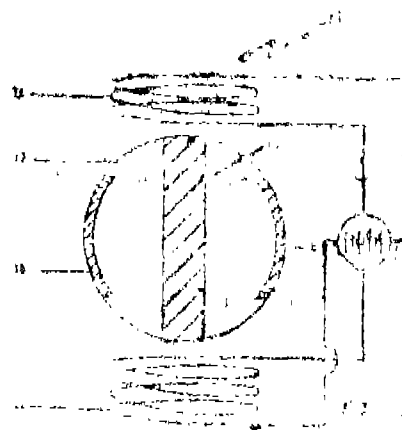


FIG. 9

Provisional specification 7 pages;

Drgn. 01 sheet

Compl. specn. 15 pages;

Drgns 06 sheets

Ind. Cl. : 107 B, G & F Gr. (XLVI (2))

176106

Int. Cl. F 02 B - 7/04, 19/06.

A COMBINED SPARK IGNITION AND COMPRESSION IGNITION TYPE INTERNAL COMBUSTION ENGINE.

Applicants & Inventor : VISWANATH DATTATREYA HUKERIKAR INDIAN NATIONAL OF VISHWAKARMA MANSION, KHARIVAV, BARODA-390 001, GUJARAT STATE, INDIA.

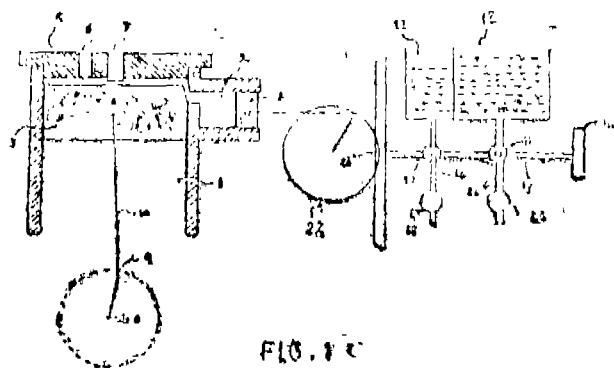
Application No. 288/Bom/92 filed on 1-9-92.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent office Branch, Bombay-400 013.

2 Claims

A combined spark ignition and compression ignition type internal combustion engine comprising a main cylinder (1) with piston (3), connecting rod (10), and a crank shaft (8); an auxiliary cylinder (2) in communication with the said main cylinder of the said engine; an auxiliary piston (4) slidable in the said auxiliary cylinder; a dual fuel tank (21) for storing petrol and diesel separately; an inlet pipe (15) provided between the said petrol tank (11) and a carburettor (19), another inlet pipe (16) provided between the said diesel tank (21) and a fuel pump (20); cocks (17, 18) provided in the said pipes for opening and closing of passages for the petrol and diesel; a lever (13) rotatable by a knob (14) to accentuate the said cock for gradually reducing the flow of petrol and gradually increasing the flow of diesel; a cam (22) connected to the said lever; a connecting rod of the said auxiliary piston actuated by the said cam, such that during the petrol cock being gradually closed, the auxiliary piston is pushed from its bottom dead centre to top dead centre, thereby reducing its clearance volume; and means or spark ignition (7) as well as

means or compression ignition (6) provided in the cylinder head of the said engine.



Compl. specn. 12 pages

Drngs. 3 sheets

Ind. Cl. : 195 E [XXIX (3)]

176107

Int. Cl. : A 47 K - 5/12.

A PRESSURE PLATE FOR AN EXTRUDER/PLODDER.

Applicants : HINDUSTAN LEVER LTD. HINDUSTAN LEVER HOUSE, 165-166, BACKBAY RECLAMATION BOMBAY-400020, MAHARASHTRA, INDIA.

Inventors : (1) MOHAN MANOHARAN, (2) VIJAY MUKUND NAIK.

Application No. 321/Bom/1992 filed Oct. 12, 1992.

Complete after provisional left Oct 11, 1993.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

10 Claims

A pressure plate or an extruder/plodder, wherein said plate is provided with a plurality of substantially coaxial circular or polygonal slits or openings, the total open area defined by the slits being sufficient to create the desired back pressure, and each slit being provided with at least one supporting rib member.

Compl. specn. 8 pages;

Drng. Nil sheet

Provisional specification 6 pages

Drngs. 4 sheets

Ind. Cl. : 170 D, Gr. [XLIII (4)]

176108

Int. Cl. : A 61 k - 37/48.

A STABLE AQUEOUS ENZYMATIC DETERGENT COMPOSITION WHICH IS ESSENTIALLY FREE FROM BLEACHING AGENTS.

Applicant : HINDUSTAN LEVER LIMITED OF HINDUSTAN LEVER HOUSE, 165-166, BACKBAY RECLAMATION BOMBAY-400 020, MAHARASHTRA, INDIA A COMPANY INCORPORATED UNDER THE INDIAN COMPANIES ACT, 1913.

Inventors : 1. CARLO JOHANNES VAN DEN BERGH, 2. HOWARD BRUCE KAISERMAN, 3. MARJA ONWENDIJK.

Application No. 323/Bom/92 filed on 14-10-92.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office Branch, Bombay-13.

10 Claims

A stable aqueous enzymatic detergent composition comprising :

(a) from about 5 to about 65% by weight of a surfactant;

(b) a mutant subtilisin enzyme in which the amino acid sequence has been changed at least at positions 195 and 222 by substitution with another amino acid, said enzyme being added in sufficient quantity to have an activity level of 0.01 to 200,000 GU/g;

said composition being essentially free from bleaching agent and lipases.

Compl. specn. 24 pages;

Drng. Nil

Ind. Cl. : 89 Gr. [XLI (6)].

176109

Int. Cl. : G 01 N - 3/40.

MULTIPLE LOADING PROBE FOR ULTRASONIC HARDNESS TESTER.

Applicants : MRS. INDUMATI JAYANTKUMAR SHAH AND MR. KAMLESH JAYANTKUMAR SHAH BOTH INDIAN NATIONALS AND PARTNERS OF MADHAVLAL SHAH & CO 67, SION (WEST), BOMBAY-400 022, MAHARASHTRA, INDIA.

Inventor : MR. KAMLESH JAYANTKUMAR SHAH.

Patent Application No. 346/Bom/92 filed on 06-11-92.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972). Patent office Branch, Bombay-13.

05 Claims

A Multiple Loading probe for Ultrasonic Hardness Tester comprises of a main body having five sections viz., a Cylindrical Upper body portion (1) with a stemmed cap (2) at its one end, and Converging central body portion (3) at its other end; a Cylindrical central body portion (4) Connected to the said converging Central body portion (3), a lower body portion (5) provided at the end of the said cylindrical central body portion (4), the said lower body portion (5) being closed at the bottom & provided with a central hole (6) for passing there through a magnetostrictive indenter rod (7), a bobbin (9) having a pair of excitation & Magnetising coils (10) provided inside the said lower body portion (5), an internal wall projection (12) provided in the central body portion (4) for locating the said bobbin (9) in a fixed position, another internal wall projection provided on the said Central Converging body portion (3) for locating 1st spring holder (16) & a 2nd load spring holder (23), a 1st load Spring (15) surrounding the said stem of the cap (2) and located on the said 1st load spring holder (16), the top end of the 1st load spring (15) accommodated inside a notch (17) of the cap (2), a Crystal seat (14) fitted in the middle portion of the said magnetostrictive indenter rod (7) and housed inside a Crystal holder (25) which in turned is housed within the 1st load spring holder (16) a set of piezoelectric crystals (13) being compressed against the crystal seat (14) with the help of a pressure adjustment nut (18) having a projecting sleeve (19) over which is snugly fitted a hollow shaft (20) moving vertically inside the bearing (21) fixed at the upper portion of the central Cylindrical main body (4), a 2nd load Spring (22) surrounding the said 1st load Spring (15) and located on the said 2nd load spring holder (23) at its lower end, while the upper end is accommodated in another notch (24) in the cap (2), a load application control knob (26) having a hole (32), mounted on a step (27) made onto the said converging central body portion (3) of the main body, a pin (31) passing through the said hole (32) in the said load application control knob (26), a hole (30) in the said 2nd load spring holder (23) and engaging into a blind hole (29) onto the said

1st load spring holder (16), a projecting pin (33) fixed onto the outer surface of the said crystal holder (25) for selectively engaging into a 'T' slot (34) provided on the said 2nd load spring holder (23) and passing through a slot (35) provided on the said 1st load spring holder (16), for selection of the load to be applied on the said magnetostrictive indenter rod (7).

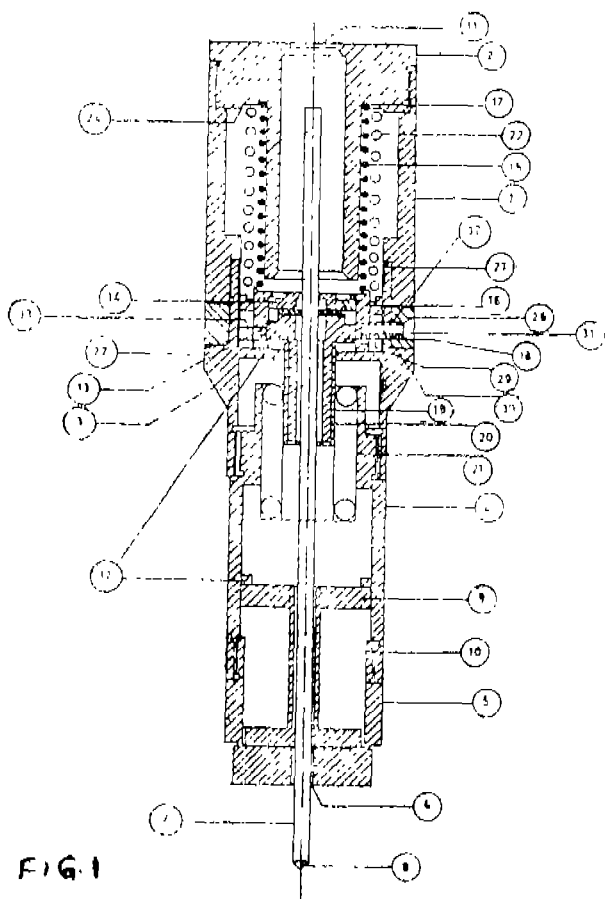
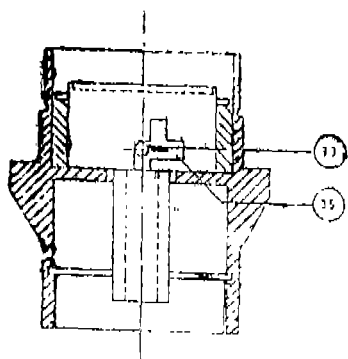


FIG. 1



Compl. specn. 16 pages

Drngs. 06 sheets

Ind. Cl. : 95 I, Gr. [XLIII (2)]
51 E, Gr. [LXVI (2)]

176110

Int. Cl. : A 01 G - 3/03; 3/04;
B 26 B - 13/00.

A SECATEUR.

Applicant & Inventor : MRS. SUBHRA SINHA, 372/A-1, KOREGAON PARK, PUNE-411 001, MAHARASHTRA, INDIA, AN INDIAN NATIONAL.

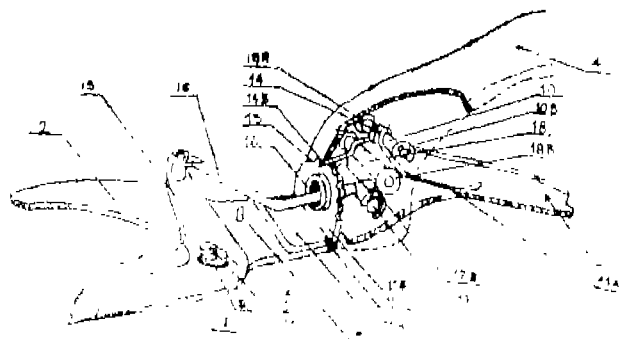
2-447-GI/95

Application for Patent No. 356/Bom/92 filed on 18-11-92.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972). Patent office Branch, Bombay-400 013.

05 Claims

A secateur consisting of an anvil and a blade provided with operating handles, said blade and anvil being pivoted together and said blade being adapted to close on and move away from said anvil about the pivot thereof and spring biased onto said anvil, a stopper pin provided on said anvil and adapted to abut and limit the movement of said blade on said anvil, said handles being disposed one below the other spring stretched apart, the front ends of said handles being pivoted together, said one handle being adapted to move in towards and move out away from said other handle about the pivot at the front ends thereof, the rear end of said anvil being fixed to one flange of an L-shaped bracket, the other flange of said L-shaped bracket being provided with a plurality of identations on the outer surface thereof and rigidly mounted on a bush which in turn is rotatably mounted at the front end of said other handle, said one handle being stretched apart from said other handle by a torsion spring, one limb of which is located on said one handle and the other limb of which is protruding out through an opening at the front end of said other handle and engaged in one of said identations, the rear end of said blade being eccentrically connected to the front end of said one handle and clamp means to clamp said handles together in the closed position of said blade on said anvil.



Compl. specn. 15 pages

Drngs 04 sheets

Ind. Cl. : 102 C, Gr. [XXIX (1)]

176111

101 E, Gr. [XXVIII (2)]

Int. Cl. : G 01 F - 1/00; 1/58.

A FLUID FLOW METER.

Applicant & Inventor : AVINASH SHRIKRISHNA VAI-DYA INDIAN NATIONAL OF 122/3 ERANDAVANA ANURAG APARTMENTS, PUNE-411 004, MAHARASHTRA STATE, INDIA.

Patent Application No. 280/Bom/1992 filed on 11-09-1992.

Complete after provisional filed on 05-10-1993.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-13.

06 Claims

A fluid flow meter comprising :

- a flow tube through which fluid whose flow is to be measured can flow;
- a vortex generating body, mounted within the said flow tube, said body having a base surface facing fluid flow and a pair of converging downstream surfaces;
- a pair of orifices one orifice located on each of the downstream surfaces;
- a chamber in registry with the said orifices;

a movable means provided in the said chamber; movable within the said body in response to vortex induced pressure changes in the orifices and

a means responsive to the motion of the movable means for producing a signal corresponding to the flow rate of the fluid.

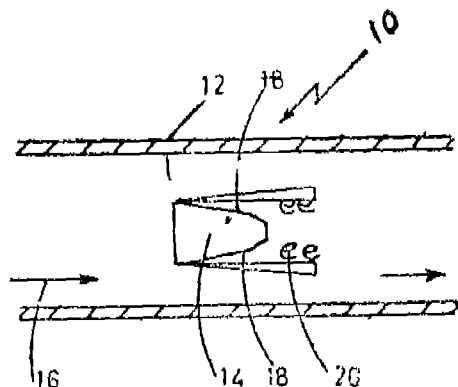
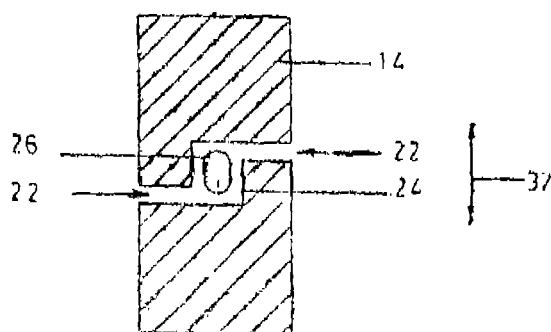


FIG. 1.



Provisional specification 08 pages;

Drng. 01 sheet

Compl. specn. 10 pages;

Drng. 01 sheet

Ind. Cl. : 170 B, Gr. [XIII] (4)

176112

Int. Cl. : C 11 D - 1/831.

DETERGENT POWDERS AND PROCESS FOR PREPARING THEM.

Applicants : HINDUSTAN LEVER LIMITED, OF HINDUSTAN LEVER HOUSE, 165-166, BACKBAY RECLAMATION, BOMBAY-400020, MAHARASHTRA, INDIA, A COMPANY INCORPORATED UNDER THE LAWS OF INDIA.

Inventors : (1) GALIP AKAY, (2) ANDRE PAUL CHAPPLE, (3) PETER ROBERT GARRET, (4) PETER CORY KNIGHT, (5) JOHN WILLIAM HAROLD YORKE.

Application No. 303/Bom/92 filed on 25-09-92.

G. B. Priority dated 27-09-1991.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-13.

10 Claims

Granular detergent composition having a bulk density of from 650 to 1100 kg/m³ and comprising anionic and/or nonionic surfactants, from 5 to 30% by weight of sodium carbonate and/or bicarbonate and/or sesquicarbonate, other builder material, and from 1 to 15% by weight of particulate citric acid, whereby more than 80% by weight of the citric acid has a particle size which is in the range of from 350 to 1500 μ m.

Compl. specn. 15 pages,

Drng. Nil sheet

Ind. Cl. : 50 A [VII] (1)

176113

Int. Cl. : A 47 J - 41/02.

A VACUUM FLASK.

Applicants : EAGLE FLASK INDUSTRIES PVT. LTD., TALEGAON-410 507, DIST. PUNE, MAHARASHTRA, INDIA.

Inventor : ALIMOHAMMED CHHAGANBHAI PADAMSEE.

Application No. 333/Bom/1992 filed on Oct 22, 1992.

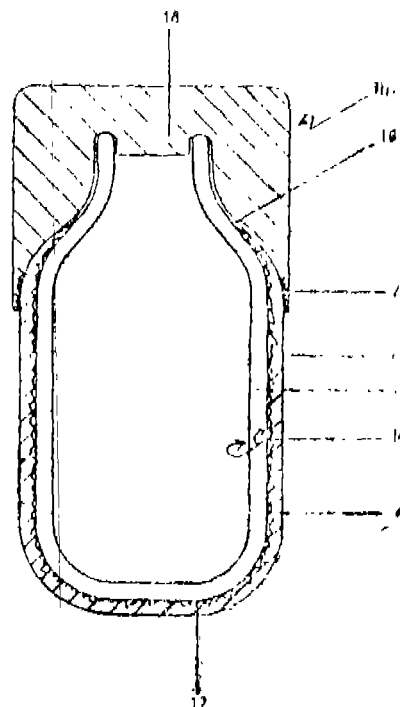
Complete after provisional filed on June 9, 1993.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay-400 013.

10 Claims

A vacuum flask (10) comprising of a double walled glass bottle, (12) having side walls, (14) a neck region (16) and an open mouth, the two walls of the bottle defining an annular space (20) there between which is evacuated; and

an integral jacket (22) of a resilient synthetic polymeric material moulded around the outer wall of the said double walled glass bottle.



Provisional specn. 4 pages

Drng. Nil

Compl. specn. 7 pages

Drng. 1 sheet

Ind. Cl. : 50 A Gr. [VII] (1)

161714

Int. Cl. : A 47 J - 41/00.

LIQUID CONTAINER.

Applicants : EAGLE FLASK INDUSTRIES LIMITED, AN INDIAN COMPANY OF TALEGAON-410 507, DISTRICT-PUNE, MAHARASHTRA STATE, INDIA.

Inventor : ALIMOHAMED CHAGANBHAI PADAMSEE.

Application No. 360/Bom/92 filed on 19-11-92.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay-400 013.

04 Claims

A portable liquid container comprising :

a non-rigid pouch of textile material, having thermally insulated flexible walls, for receiving and holding a compressible liquid containment means therein; the said pouch being provided with a first opening at its one end and a second zippered opening at its other end;

a compressible liquid containment means having a pair of opposing rigid walls connected to each other by a second pair of resilient, collapsible bellows-type walls, and a rigid mouth-bearing neck element secured to one of the said collapsible walls, said neck element being provided with a threaded portion;

a two-piece stopper having a main body being screwed on the threaded portion of the neck element, said main body bearing an apertured threaded nozzle formation, through which liquid is ejected in the form of a jet by displacing the rigid walls of the liquid containment means towards each other and

a nozzle cover being screwed on to the threaded nozzle formation;

a freezable pack removably inserted between the pouch and the liquid containment means.

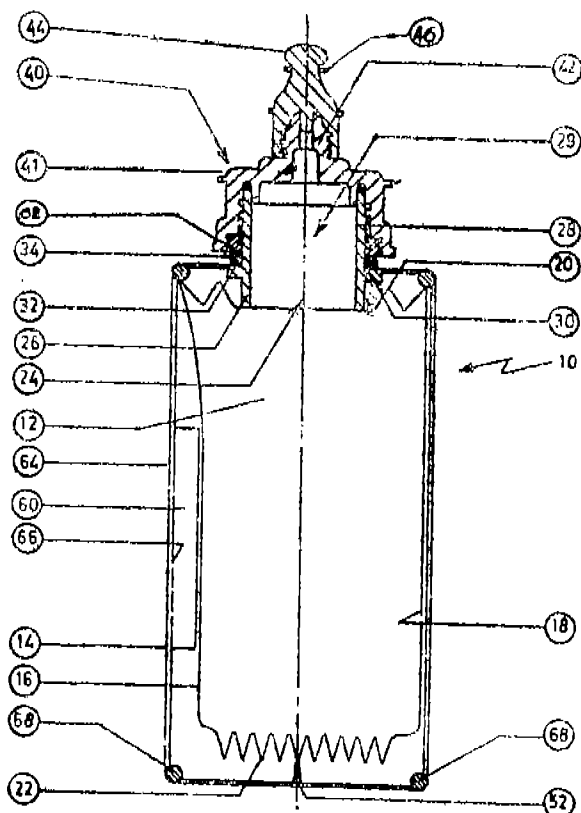


FIG-3

Ind. Cl. : 32 F₃ a Gr. [IX (1)]

176115

Int. Cl. : C 0 8G - 63/76.

A METHOD FOR THE SYNTHESIS OF AROMATIC POLYESTER POLYOL FROM POLYESTER WASTE FOR APPLICATIONS IN RIGID POLYURETHANE FOAM.

Applicants : THE SILK & ART SILK MILLS' RESEARCH ASSOCIATION 'SASMIRA', SASMIRA MARK, WORKI, BOMBAY-400045, MAHARASHTRA, INDIA, INDIAN COMPANY.

Inventors : 1. DR. NITIN BALAJI NEVREKAR, 2. MR. ASHOK YESHWANT KHARADE.

Application No. 371/Bom/92 filed on 24-11-92.

Date of filing complete after provisional Specification 3-3-93.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay-400 013.

10 Claims

An improved method for the manufacture of liquid aromatic polyester polyol made by a process comprising :

(a) reaction of polyester waste with aromatic dicarboxylic acid anhydride at 150—250°C in presence of catalyst.

(b) reaction of diols or glycols with the above reaction mixture for 5—15 hours at 150—250°C in situ.

Prov. specn. 4 pages

Drng. Nil sheet

Compl. specn. 8 pages

Drng. Nil sheet

Ind. Cl. : 128 I XIX (2)

176116

Int. Cl. : A 61 F, 9/06.

A NASAL FILTER.

Applicant & Inventor : DR. ADITYA RAMCHANDRA KAMAT, KAMAT BUILDING, 481, V. S. ROAD, PRABHADEVI, BOMBAY-400 025, MAHARASHTRA, INDIA.

Application No. 405/Bom/92

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay-400 013.

3 Claims

A nasal filter comprising a plug P with a ring made out of polythene material and a cotton cloth mesh from Daakka Maimai is meant to get a filtered and restricted air for better breathing has two ends the outer end E1 of the plug P has a bigger opening O while the other inner end E2 with a smaller aperture A which is fitted with a cotton cloth mesh M with the help of a polythene ring R which is withheld by a projected rim RM at the inner end E2 differentiates from other nasal filters due to its removable cotton cloth mesh which can be washed and reused, the plug having an air space S within its interior and the open end O and the inner aperture A with cotton cloth mesh M intercommunicating through the air space S whereby the flow of air from atmosphere drawn into the nostril and passing through the plug P is restricted by the inner aperture A and also filtered by the cotton mesh M.

Compl. specn. 5 pages

Drng. 1 sheet

Ind. Cl. : 69 B < Gn. [LIX (1)]

176117

Int. Cl. : H 01 H - 83/14.

DIFFERENTIAL PROTECTIVE RELAY APPARATUS.

Applicants : MITSUBISHI DENKI KABUSHIKI KAISHA, A JAPANESE COMPANY ORGANISED & EXISTING UNDER THE LAWS OF JAPAN, 2-3, MARNOUCHI, 2-CHOME, CHIYODA-KU, TOKYO 100, JAPAN.

Compl. specn. 17 pages.

Drngs. 05 sheets

Inventors : 1. MAKOTO TERADA, 2. YOSUKE TSUKIKURA.

Application for Patent No. 7/Bom/93 filed on 05-01-93.

Divisional to Patent Application No. 279/Bom/90 dated 30-10-90.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-13.

02 Claims

A differential protective relay apparatus for use across a differential circuit formed by the parallel connection of the secondary windings of current transformers of a power supply system, said apparatus comprising a switching circuit for switching impedance of said differential circuit based upon function relationship between a fundamental component and even harmonic components in inputs into said apparatus and a breaker tripping interlock circuit formed of a plurality of voltage detecting relay elements for detecting the voltage of said differential circuit switched by the switching circuit, said apparatus automatically achieving low-impedance differential mode or high-impedance differential mode by taking either low-differential circuit impedance or high-differential circuit impedance utilizing relationship between the fundamental component and even-numbered harmonic components.

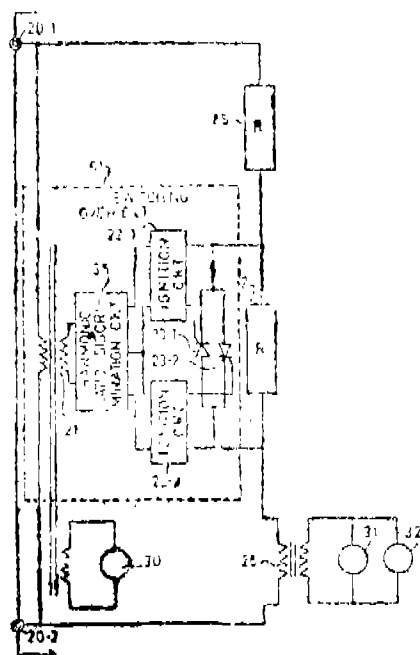


FIG - 5

Comp. specn. 29 pages

Drawings, 07 sheets

Ind. Cl. : 13 (IX) (1)

176118

143 D 2, 143 D 4 (X) (5)

Int. Cl. : B 65 B - 9 (0)

AN IMPROVED POUCH SEALING MACHINE TO SEAL THE VERTICAL ABUTTING EDGES ALONGWITH A BACK UP TAPE.

Applicants : NICHROME METAL WORKS PVT. LTD., 46, DR. AMBEDKAR ROAD, NEAR SANGAM BRIDGE, PUNE-411 001, MAHARASHTRA, INDIA.

Inventor : PRABHAS BALKRISHNA PARANTAP.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent office Branch, Bombay-13.

1 Claim

An improved pouch sealing machine to seal the vertical abutting edges alongwith a back up tape comprising a master stock roll for feeding a supported film from above on to a main tube forming hollow cylinder having shoulder to present the two vertical edges of the said film side by side inabutting manner in a straight vertical line, the said film being made of two layers, the inner layer being of LDPE and the outer layer being of polyester, an attachment in the form of a roller and a spool provided adjacent to the said main tube forming cylinder, the said spool carrying a tape made of three layers, two outer layers being of LDPE and the middle layer being of polyester, the said tape being provided as a back up tape being inserted from inside and close to the said vertical abutting edges of the vertically formed main tube, and an electrically operated sealing means for fusing the said tape with the abutting edges of the said main tube

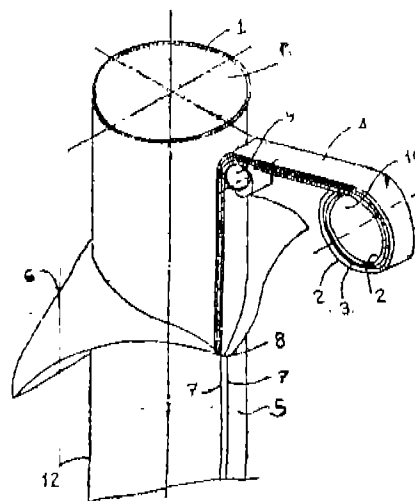


FIG.4

Comp. specn. 5 pages

Draw. 1 sheet

Ind. 129 A, G (XXXV)

176119

Int. Cl. : B 21 D - 31/04, 35/00.

"AN EQUIPMENT FOR MAKING CONTINUOUS EXPANDED METAL MATERIAL FROM METAL FOILS."

Applicant & Inventor : DR. SHIREESH DHUNDIRAJ PHADKE, CHIDANAND, 1011/20-B, MITRA NAGAR, DEEP BUNGALOW CHOWK, PUNE-411 016, MAHARASHTRA, INDIA.

Application No. 193 Bom 1993 filed on 17-06-1993.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay-400 013.

1 Claim

An equipment (1) for making continuous expanded metal material (2) from metal foils (3) comprising a feeder roller (4) located at the base; (5) second set of pairs of pairs of rollers (6) in which one of the rollers (7) is made of hard rubber or maintaining desired tension of the foil; third set of rollers (9), with one of the rollers (10) made of a plurality of disk type cutters (11) interposed by spacer plates, (12) the said cutter plate (11) having on its circumference cutting edge (13) with uniform gaps (14) forming noncutting area, the second roller is abreastly located with the first cutter roller, the said second roller (15) also having thin discs (16) arranged in stack interposed with spacer plates, (17) the edge (18) of the said disc of the said second roller (15) is continuous in nature and provides support and guide to the cutting edge of the said first roller to cut a foil in lattice shape,

a suitable drive (19) for said rollers, an arrangement (22) to pull the lattice shaped foil comprising a set of pairs of belts (23) having lugs similar to timing belts, the said lugs (24) engaging with the edge of the said lattice foil, said set of belts (23) diverge towards the exit end of the foil, the cut foil further is stretched in two directions viz. forward and angular to form lattice or mesh which further passes on to be gathered or collected in a drum.

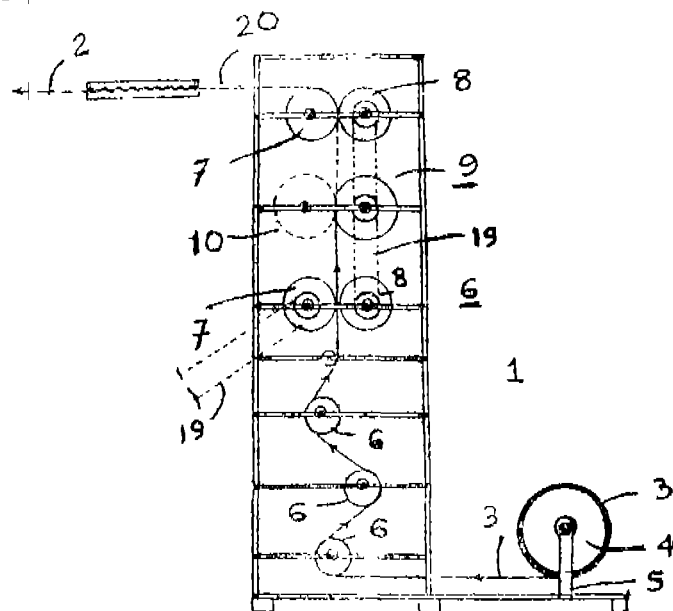


FIG 1

Compl. specn. 6 pages

Dings. 1 sheet

Ind. Cl. : 163 D & A G, IXIV (3)

176120

Int. Cl. : F 04 H - 13 12, 13 08, 45 08, 45 06.

AN IMPROVED PERISTALTIC PUMP

Applicants : M. S. GOSHIKHO PVT. LTD., A-2619, G.I. D.C. MAKARPURA, BARODA 390010, GUJARAT, INDIA INDIAN COMPANY.

Inventor : MR. KIRAN RAVINDRA DIWANJLI

Patent Application No. 211 Bom/93 filed on 02-07-93.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400013.

02 Claims

An improved peristaltic pump comprising of a metallic casing provided with a resilient tube being pressed by a pair of lobes of central rotor characterised in that said resilient tube being multi-layer with soft inner layer, reinforced central layer and said lobes having specified profile with smooth lead in edge and gentle trailing edge; said tube is having sensor for indicating failure of tube.

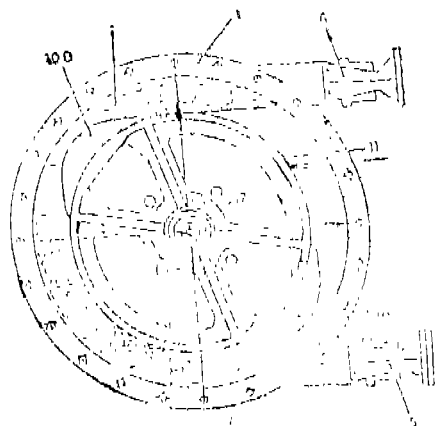


FIG-1

Compl. specn. 07 pages

Dings. 02 sheets

Ind. Cl. : 55 E 4 & F 2 (a), (2c)

176121

Int. Cl. : A 61 k - 21/00 & C 07 d - 25/20.

'PROCESS FOR THE PREPARATION OF β -LACTAM DERIVATIVES.'

Applicant : L. R. SQUIBB & SONS, INC., A CORPORATION INCORPORATED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF LAWRENCEVILLE-PRINCETON ROAD, PRINCETON, NEW JERSEY 08540, UNITED STATES OF AMERICA.

Inventors : RICHARD BROOK SYKES, WILLIAM LAWRENCE PARKER, CHRISTOPHER MICHAEL CIMARUSTI, WILLIAM HENRY KOSTER, ALAN WILLIAM FRITZ, WILLIAM ALLEN SLUSARCHYK AND DAVID MACK FLOYD.

Application for Patent No. 730, Del./1984 filed on 18th September, 1981.

Divisional to Patent application No. 67/Del./1981 filed on 6th February, 1981.

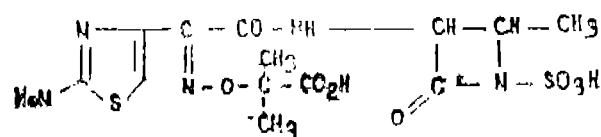
Ante dated to 6-2-1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

2 Claims

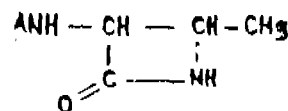
A process for the preparation of a β -lactam of general Formula LXVII

LXVII



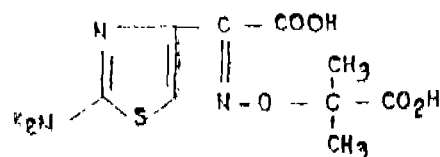
shown in the accompanying drawings which comprises acylating in any known manner, a β -lactam of the general Formula LXV

LXV



wherein A is hydrogen with a compound of the general Formula LXVI

LXVI



(Compl. specn. 26-1 pages)

Dings. 10 sheets)

Ind. Cl. : 32-L.

176122

Int. Cl.¹ : C 08 F, 10/00.**A PROCESS FOR THE OLIGOMERIZATION OF OLEFINIC HYDROCARBON TO PRODUCE OLIGOMERS.**

Applicant : UOP INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE IN THE UNITED STATES OF AMERICA, WITH ITS PRINCIPAL PLACE OF BUSINESS LOCATED AT TEN UOP PLAZA, ALGONQUIN & MT. PROSPECT ROADS, DES PLAINES, ILLINOIS 50016, USA.

Inventor : ROBERT ROY FRAME.

Application for Patent No. 447/Del/86 filed on 20 May 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110 005.

8 Claims

A process for the oligomerization of an olefinic hydrocarbon to produce oligomers, which comprises treating said hydrocarbon to oligomerization conditions in the presence of a catalyst composite comprising a combination of an alkyl aluminum compound such as herein described on a porous support such as herein described containing an iron group metal hydrate in which the mole ratio of water of hydration to iron group metal is in the range of from 0.5; 1 to about 6 : 1, said iron group metal being present in said composite, on an elemental basis, in an amount in the range of from 1% to 20% by weight of said composite and said alkyl aluminum compound being present in said composite in a mole ratio in the range of from 0.05; 1 to 6, 1 moles of alkyl aluminum compound per mole of iron group metal.

(Compl. specn. 21 pages)

Drng. Nil sheet)

Ind. Cl. : 80 A

176123

Int. Cl.⁴ B 01 D 25/00.**A FILTER FOR LIQUIDS LADEN WITH SOLID PARTICLES.**

Applicant & Inventor : GUY GAUDFRIN, A FRENCH CITIZEN, OF ALLÉE DU BEC DE CANARD, GOLF 78860 SAINT-NOM-LA-BRETECHE, FRANCE.

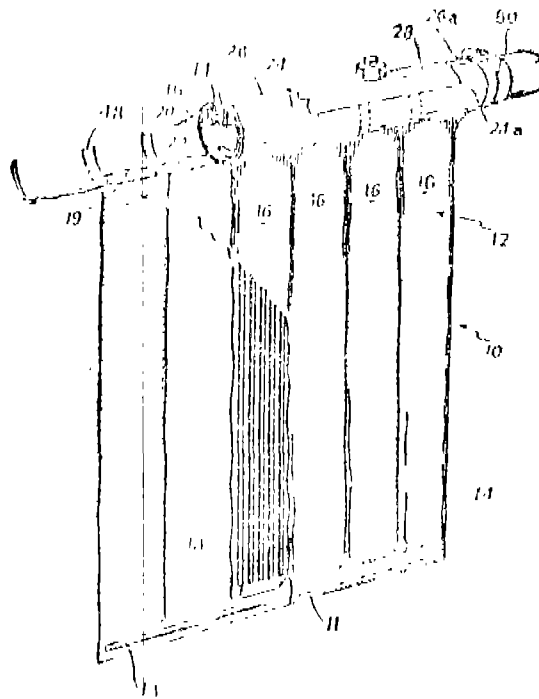
Application for Patent No. 891/Del/86 filed on 7th Oct. 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110 005.

17 Claims

A filter for liquids laden with solid particles, the filter comprising a filter vat (52) provided with an inlet orifice (60) for the liquid to be filtered, an outlet orifice (1) for the filtered liquid or filtrate, and an evacuation orifice (66) for solid particle sludge, together with a plurality of filter elements (10) in the form of filter medium cloths disposed around filter leaves (18) and located substantially vertically in said filter vat (52) between, said inlet and outlet orifices characterised in that said filter medium cloths are shaped as elongate pockets (16) which are fitted substantially freely over said leaves, said leaves (18) being provided with longitudinally-extending drainage (32) channels, said pockets having openings directed upwardly and in communication with said outlet orifice (1), and said leaves being suspended

beneath support members (34) fixed in said vat and being free to rock sideways.



(Compl. specn. 25 pages)

Drngs 8 sheets)

Ind. Cl. : 40 B

176124

Int. Cl.¹ : B 01 J, 23/50.**A PROCESS FOR PREPARING A SILVER CATALYST FOR USE IN THE OXIDATION OF ETHYLENE TO ETHYLENE OXIDE.**

Applicant : SHELL INTERNATIONAL RESEARCH MAATSCHAPPIJ B. V., A NETHERLANDE COMPANY, OF CAREL VAN BYLANDT LAAN 30, 2596 HR THE HAGUE, THE NETHERLANDE.

Inventors : GOSSE BOXHOORN AND AAN HENDRIK KLAZINGA.

Application No. 268/Del/87 filed on 5-5-87.

Convention Date : 7-5-85/8611121/U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110 005.

10 Claims

A process for preparing a silver catalyst for use in the oxidation of ethylene to ethylene oxide characterised by

- (a) a calcined, alkali metal-enriched alumina carrier and
- (b) from 1 to 25 per cent by weight of metallic silver, based on the weight of the total catalyst,
- (c) an alkali metal of the group consisting of potassium, rubidium and cesium, in the form of their oxide or hydroxide as a promoter and
- (d) a fluoride anion, the latter two under (C) and (D) each being present in an amount between 10 and 1000 parts by weight per million parts by weight of the total catalyst,

said process comprising mixing an alumina carrier of the kind such as herein described with an alkali metal compound of the kind such as herein described, calcining said mixture in any conventional

manner, impregnating the metal etched and etched aluminum carrier with a solution of a silver compound, to cause precipitation on the carrier of from 1 to 25 per cent by weight, of the total catalyst, of silver, and before, during or after that impregnation also with one or more dissolved potassium—rubidium—or cesium—compounds as promoter and with an additional source of fluoride anions, and after said precipitation the silver compound on the impregnated carrier being reduced to metallic silver in a conventional manner.

(Compl. specn. 17 pages)

Drng. Nil sheet)

Ind. Cl. : 179 F

176125

Int. Cl.⁴ : F 16 J 15/00 & 15/08.

A PILFERPROOF SEAL FOR GENERAL PURPOSES.

Applicant & Inventor : ADITYA GUPTA, AN INDIAN NATIONAL, L-3, HAUZ KHAS ENCLAVE, NEW DELHI-110 016.

Application for Patent No. 886/Del/87 filed on 09 Oct. 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110 005.

2 Claims

A pilfer-proof seal for general purposes comprising of a female part (1) and a male part (3), the said female part (1) in the shape of a hollow pipe, inner walls of the said female hollow pipe having an allover collar (2), the said male part (3) made up in three steps namely A, B and C, step A having the same diameter as that of the inner diameter of the said hollow pipe (1), step B having a groove (4) of diameter slightly lesser than the diameter of the said collar (2) of the female part, step C in the form of a taper rod, the one end (5) of the said taper having a diameter same as that of the inner diameter of the said hollow pipe (1) such that the said taper (5) just fits in the said hollow pipe (1) and the other end (6) of the said taper C having a diameter equal to the diameter of the said collar (2), the height of the said collar (2) being slightly lesser than the height of the said step B such that the said collar (2) is totally enclosed in the step B when pushed into each other and the said male part (3) being provided with a through hole (7).

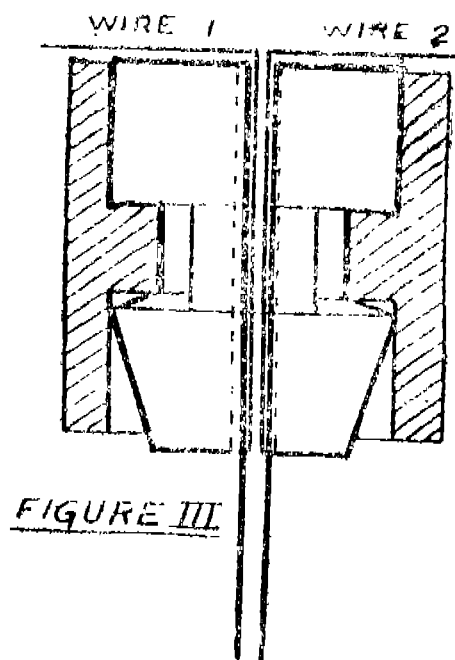


FIGURE III

(Compl. specn. 6 pages)

Drng. sheet 1)

Ind. Cl. : 154 D

176126

Int. Cl. : G 06 K 1/00, 3/00.

PRINT HEAD FOR A WIRE DOT MATRIX PRINTER.

Applicant : LENMARK INTERNATIONAL, INC. 55 RAILROAD AVENUE, GREENWICH, CT 06836, U. S. A., A DELAWARE CORPN.

Inventor : NORMAND COY SMITH.

Application for Patent No. 484/Del/88 filed on 31 May 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110 005.

1 Claims

A print head for a wire dot matrix printer which comprises :

a plurality of print wires;

a frame having wire receiving means for said print wires;

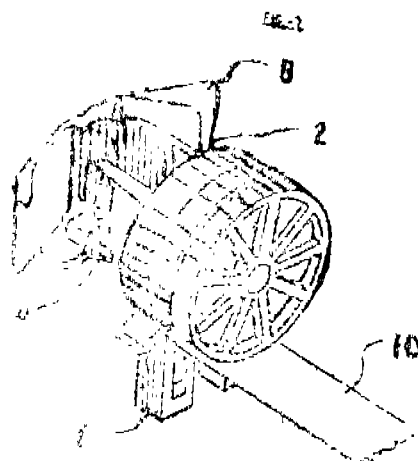
a stator assembly having a plurality of fixed posts made of magnetically permeable material and a plurality of coils, each of said fixed posts being surrounded by one of said coils, each of said fixed post and coil pairs defining a cavity, and said stator assembly abutting said frame;

a one piece armature for driving said print wires against a record medium, said one piece armature having a periphery with a plurality of radial arms each of said radial arms being connected at said periphery by an associated arm base and radiating inwardly therefrom, and each of said associated arm bases having a slight bend for biasing the associated radial arm in a direction opposite to that travelled by said driven print wire when said radial arm is in a rest position;

a plurality of movable cores made of a magnetically permeable material, each of said movable cores being affixed to an associated radial arm and extending into a corresponding cavity in said stator assembly so as to provide a gap between said core and said fixed post when said radial arm is in said rest position;

a flux plate and a residual for separating said one piece armature from said stator assembly and for receiving said movable cores; and

means such as herein defined for selectively energising each of said coils.



(Compl. specn. 11 pages)

Drngs. 5 sheets)

Ind. Cl. : 32 C

176127

Int. Cl. : C 10 G 11/09.

DEVICE FOR DISTRIBUTING FLUIDIZING GAS.

Applicant : UOP INC. A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF DELAWARE IN THE UNITED STATE OF AMERICA, WITH ITS PRINCIPAL PLACE OF BUSINESS LOCATED AT 25 EAST ALGONQUIN ROAD, DES PLAINES ILLINOIS, USA.

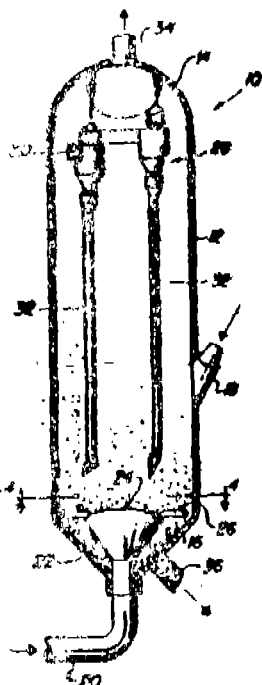
Inventors : SCOTT CHARLES JULIAN & ISMAIL BIRKAN CETINKAYA.

Application for Patent No. 533/Del/88 filed on 20 June 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110 005.

6 Claims

A device for distributing fluidizing gas over a fluidized bed of solid particles, comprising, a perforated head 24 for distributing gas over a central portion of said fluidized bed; a toroidal knuckle 46 attached to and surrounding the periphery of the head 24 and supporting the head 24; a plurality of pipe branches 26 for distributing gas over an annular region of said fluidized bed, said pipe branches 26 extending radially and horizontally outward from said toroidal knuckle 46, and said pipe branches 26 being supported from said toroidal knuckles by pipe branches connections 48 formed in said toroidal knuckle 46; each pipe branch connection 48 having an outlet in communication with the interior of said device.

**Fig. 1**

(Compl. specn. 16 pages)

Drngs. 3 sheets)

Ind. Cl. : 32 E + 39 G

176128

Int. Cl. : C 08 F 4/06, 4/72.

A METHOD FOR PREPARING A CATALYST SYSTEM FOR USE IN THE PREPARATION OF OLEFIN POLYMERS.

Applicant : SHELL OIL COMPANY A CORPORATION ORGANISED AND EXISTING UNDER THE LAW OF THE STATE OF DELAWARE, UNITED STATE OF AMERICA OF : 900, LOUISIANA, HOUSTON, TEXAS 77001, UNITED STATE OF AMERICA.

Inventor : ROBERT CHARLES JOB.

Application for Patent No. 543/Del/88 filed on 23 June 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent office Branch, New Delhi-110 005.

14 Claims

A method for preparing a catalyst system for use in the preparation of olefin polymers which comprises the step of :

- making crystalline magnesium halide particles having the formula $Mg_n E_m X_p YROH$ wherein E is a transition group metal or a main group metal, X is halogen, ROH is a linear aliphatic alcohol of up to 12 carbon atoms, n is a number from 0.25 to 6, m is 0 or 1, p is a number from 2n to $(m+2n)$, where n in the valance of the metal E, and Y is a positive number of up to 6 by contacting a magnesium compound of the formula $Mg_n E_m X_p$ wherein E, X, n, m, and p are having the same meaning as defined above or precursor(s) thereof, with an alcohol of the formula ROH wherein R has the meaning defined above to form a solution thereof, heating the solution to remove any water present by azeotropeing, and contacting the heated solution with an inert hydrocarbon liquid such as herein described to precipitate crystalline particles;
- making supported particles by melting crystalline magnesium halide particles from step (a) at a temperature of 80°C to 200°C, and adding a porous support to the molten product to form supported magnesium halide particles;
- making a precatalyst by halogenating supported particles from step (b) with a first halide of tetravalent titanium and a first electron donor to form a halogenated product, contacting the halogenated product with a second halide of tetravalent titanium and a second electron donor to form a treated halogenated product, contacting the treated halogenated product with a third halide of tetravalent titanium and additional second electron donor at a temperature from 40°C to 140°C, the first, second and third halides of tetravalent titanium can be the same or different, and the first and second electron donors can be the same or different and washing the resulting treated product with an inert hydrocarbon liquid such as herein described and
- contacting the precatalyst from step (c) with a cocatalyst comprising an organoaluminum compound such as herein described in molar ration which provide a catalyst system which has an atomic ratio of Al to Ti of from 1/1 to 150/1.

(Compl. specn. 35 pages)

Drng. Nil sheet)

Ind. Cl. : 107 G.

176129

Int. Cl. : F 02 B 25/00, 25/02

A TWO STROKE INTERNAL COMBUSTION ENGINE.

Applicant AVL GESELLSCHAFT FÜR VERBRENNUNGSKRAFTMASCHINEN UND MASSTECHNIK mbH, PROF. DR. H. C. HANS LIST, AN AUSTRIAN COMPANY OF KLEISTRASSE 48, A-8020 GRAZ, AUSTRIA.

Inventors : DIETHARD PLOHBERGER, LEOPOLD MIKULIC AND KLAUS LANDEFAHRER.

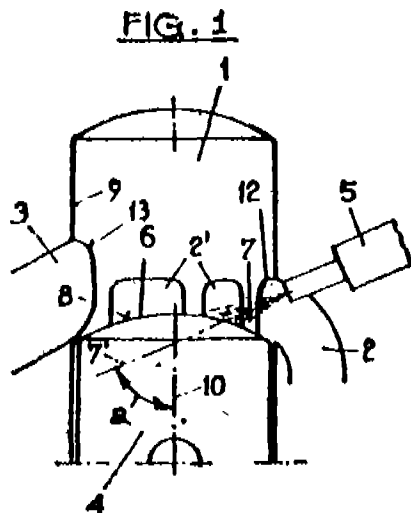
Application for Patent No. 601/Del/88 filed on 13 Jul 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent office Branch, New Delhi-110 005

4 Claims

A two stroke internal combustion engine with crankcase scavaging with a transfer passage (2) of which the transfer port (12) in the cylinder (1) is controlled by the piston (4) of which the crown (8) is made smooth and rotationally symmetrical, and with a fuel injection nozzle (5) lying opposite the exhaust port (13), the injection stream (7) from the nozzle (5) being directed at that face (8) of the piston crown (4) which is towards the combustion chamber (1), the axis (7) of the injected stream (7) making an included angle () with the axis (10) of the piston, which is less than 90°, characterised in that the injection nozzle (5) is located in the transfer passage (2) so that the injected stream from the said nozzle (5) is directed at least predominantly towards that half of the piston crown which is opposite the exhaust port (13) an exhaust passage (3) with said exhaust port (13) extending over a larger part of the height of the said cylinder (1) than the said transfer port (12) and that the start of the

injection in the upper ranges of engine speeds and loads is timed to occur before the transfer port (12) from the transfer passage (2) which is uncovered by the piston (4), to permit the part of the fuel to pre-vaporise in the transfer passage (2) and thus being improved the mixture formation.



(Compl. specn. 8 pages)

(Drgn. 1 sheet)

Ind. Cl. : 146 D₁

176130

Int. Cl. : G 02 B 21/02.

SIMPLE MICROSCOPE.

Applicant : NICOLAS GARCIA DIAZ, A SPANISH CITIZEN OF CHILE 53, 94007 ALMERIA, SPAIN.

Inventors : NICOLAS GARCIA DIAZ.

Application for Patent No 604/Del/88 filed on 14 Jul 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent office Branch, New Delhi-110 005.

2 Claims

A simple microscope comprising a substantially rectangular frame (1) a cavity (2) located in said frame, a magnifying element (3) mounted in said cavity, said magnifying element (3) being constituted by a sphere having a reduced diameter corresponding to the desired magnification, a pair of transparent support sheets (4) disposed cotateral to said frame (1) and supporting said magnifying element (3) in said cavity (2) in a immobilized manner and support means located on or constituted by the outer surface of said transparent sheets (4) for supporting the object (5) to be viewed, the support means being spaced from said magnifying element (3) by a distance corresponding to the exact focal length defined by the thickness of the transparent sheets (4) with respect to the diameter of the magnifying element.

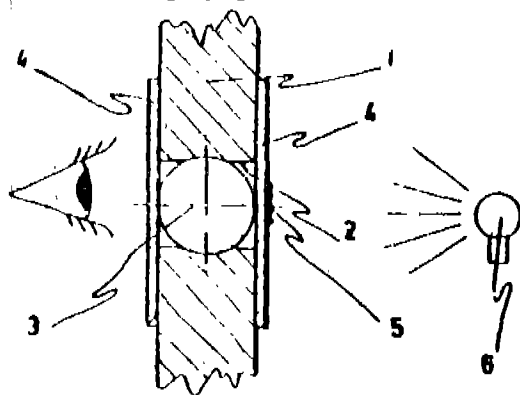


FIG. 1

(Compl. specn. 6 pages)

(Drgn. 1 sheet)

3-447 GI/95

OPPOSITION PROCEEDINGS

An opposition has been entered by M/s. National Research Development Corporation, New Delhi-110048 to the grant of Patent No. 175399 (92/Bom/1992) made by M/s. Ka'ke Mhatre Association, Bombay-400016.

An opposition has been entered by M. s. Mintage Consultants Pvt. Ltd., Bombay-400093 to the grant of Patent application No. 175242 (169/Bom/1992) made by Mr. V. D. Hukerikar & Mr. R. M. Bajikar.

An opposition has been entered by M/s. Mintage Consultants Pvt. Ltd., Bombay-400093 to the grant of Patent Application No. 175263 (101/Bom/1992) made by Mr. V. D. Hukerikar & Mr. M. R. Palkhiwalla.

CESSATION OF PATENTS

167476 167480 167488 167499 167507 167515 167541 167542
167545 167546 167553 167566 167586 167612 167614 167626
167627 167646 167647 167652 167654 167660 167663 167690
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PATENT SEALED ON 05-01-96

171008 172169 175260 175301 175382 175390 175392*
175393 175393 175396 175397 175398 175400 175401
175404* D 175405 175406 175407* D 175408* D 175409* F
175410* F 175411 175412 175413 175414 175415 175417
175418* 175419 175420 175421 175422 175423 175424
175425* 175426 175464*

CAL—02, DEL—01, BOM—24, MAS—09.

*Patent shall be deemed to be endorsed with the words LICENCE OF RIGHT Under Section 87 of the Patents Act, 1970 from the date of expiration of three years from the date of sealing.

D—Drug Patents, F—Food Patents.

COMMERCIAL WORKING OF PATENTED INVENTIONS

CHEMICAL ENGG. LIST NO. 1

The following patents in the field of Chemical Engineering Industry are not being commercially worked in India as admitted by Patentees in the Statements filed by them under section 146(2) of the Patents Act, 1970, in respect of calendar year 1993, generally on account of want of request for Licences to work the Patented invention, persons who are interested to work the said Patents Commercially may contact the Patentees for the grant of a license for the purpose.

Patent No.	Date of Patent	Name & Address of Patentee.	Title of the Invention
1	2	3	4
157529	25-3-1982	Alcan International Ltd., 1188 Sherbrooke Street West, Montreal, Quebec, Canada-H3A, 3GS.	A method of making a magnesium alloy.
154431	12-6-1981	Aluminium Pechiney, 23, rue Balzac-75008, Paris, France.	Process & apparatus for accurately controlling the rate of introduction & the content of alumina in an igneous electrolysis tank and use for the production of aluminium.
158680	22-6-1983	Do.	Process for the production of an aluminium trihydroxide of large granulometry.
161557	12-10-1983	Do.	A process for the production of aluminium trihydroxide having a medium diameter of less than 4 microns which can be varied as required.
161602	26-9-1983	Do.	A process for the production of aluminium trihydroxide granules having a diameter within the range of 2 to 100 microns.
614906	24-4-1986	Do.	Improvements in the process for the production of aluminium by electrolysis by the Hall-Herould process.
168223	21-4-1987	Do.	Process and apparatus for the decomposition of sodium aluminate liquor for the production of alumina.
165564	10-3-1986	Amberger Kaolinwerke GmbH, Georg Schitter Strasse, 708452, Hirschau, Federal Republic of Germany.	Millstage separator for separating solids from solid-liquid mixtures by counter separation.
163091	9-3-1983	Anaco Research Ltd., 130, Dowling street, Dungog, New South Wales, Australia.	Emulsions of liquid hydrocarbons with Water and/or alcohols and method of producing the same.
164650	9-3-1983	Do.	An emulsifying preparation for use in forming emulsion of liquid hydrocarbons with Water or alcohols.
164990	9-3-1983	Do.	An emulsion of liquid hydrocarbons with Water or alcohols.
165731	1-5-1986	Applied Industrial Materials Corporation, One Park way North Soute, 400, Deerfield, Illinois 60015, USA.	A process for the production of silicon or Ferrosilicon in an electric low shaft furnace and raw material mouldings suitable for the process.
167650	21-1-1988	Arco Chemical Co. 3801, Chester Pike, Newton Square, State of Pennsylvania, USA.	A method of preparing epoxide extended polyol esters.
163215	17-5-1984	Asarco Incorporated 120, Broadway, New York, State of New York, USA.	Method for the electrolytic refining of copper using thiourea as addition agent.
164522	11-6-1985	Do.	Gas burner
157484	12-10-1981	Ashland Oil, Inc., P.O. Box, 391, Ashland, Kentucky 41101, USA.	Process for the production of carbon black.
159907	25-7-1983	Basf Farben + Fasern Aktiengesellschaft, A.M. Noumarket 30, 2000, Hanburg 70, West Germany.	Process for preparing unsaturated homopolymerizable &/or copolymerizable polyesters.
159989	25-7-1983	Do.	Process for preparing an unsaturated homopolymerisable and/or copolymerizable linear polyester.
166654	25-7-1983	Do.	Process for preparing nitrogenous unsaturated homopolymerizable &/or copolymerizable polyester.

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164509	20-3-1986	Bata Ltd., 59, Wynford Drive, Don Mill Ontario, Canada M3C 1K3.	Antistatic composition & articles made there from.
153648	13-1-1981	Battelle, Development Corporation, 505, King Avenue, Columbus, Ohio 43201, USA.	A method of producing a reaction gas having a low content of nitrogen oxides and sulfur dioxide from the combustion of hydrocarbons in a multisolid fluidized bed having a lower dense fluidized bed.
157882	18-3-1982	Bergwerksverband, GmbH, Franz-Fischer-Weg, 61, 4200, Essen 13, West Germany.	Method for the production of H ₂ and containing gases.
153014	6-11-1980	Bathlehem Steel Corporation, Bethlehem, Pennsylvania, 18016, U.S.A.	A method of producing a metallic coated ferrous base product.
153015	6-11-1980	Do.	A method of producing a thermally treated metallic coated ferrous base product.
154256	15-12-1980	Do.	A process for making a ductile composite metal product.
162699	25-2-1986	Board of Regents, the University of Texas System, 201, West 7th Street, Austin, Texas 78701, USA.	Method for preparing a complementary polypeptide.
162093	30-10-1984	BP Chemicals Ltd., Belgrave House, 76 Buckingham Palace Road, London SW1W 0SU, England.	A liquid phase process for the cationic polymerization of 1-olefins.
169547	29-11-1987	Do.	A process for the production of an additive concentrate suitable for incorporation into finished lubrication oil composition.
162228	24-8-1984	British Gas Corp. of River mill House 152, Grosvenor Rd., London SW1V, 3JV, England.	A process for the production of methane-containing Gas.
164028	20-3-1985	British Steel Plc. 33, Grosvenor Place, London, S. W. 1, England.	A method of refining metal.
167089	26-2-1986	Do.	A method of iron making by means of a smelting shaft furnace.
151709	5-5-1982	Carborundum Universal Ltd., 28, Rajaji Salai, Madras-600001.	A method for manufacturing calcium silicon alloy.
155028	10-10-1980	Chemie Linz AG St. Peter-Strasse, 25, 4020, Linz, Austria.	A rawmeal composition for use in production of cement and sulphuric acid and a process for preparing said composition.
163678	15-5-1985	Chief Controller Research & Development Ministry of Defence, Government of India, New Delhi, India.	A process for the manufacture of fuel tank.
164903	14-2-1986	China Metallurgical Import & Export Corporation, 46, Dongsixi Dajie, Beijing, Republic of China.	An initiating element for use in a non-primary explosive hollow tube detonator.
159600	21-3-1984	Chuo Kagaku Co. Ltd., 5-1, 3-chome, Miyaji Kounosu, -shi, Saitama-ken, Japan.	A process for producing a resin foam by aqueous medium.
155696	31-8-1981	CIBA-GEIGY AG, Klybeckstrasse, 141, 4002, Basle, Switzerland.	Process for bleaching textiles or removing stains from textiles.
160920	31-8-1981	CIBA- Do.	Process for the preparation of aluminium or zinc phthalocyanine compounds.
161181	21-4-1984	Do.	Process for dyeing silk or silk containing fibre blends.
161351	11-4-1984	Do.	Process for dyeing silk or fibre blends containing silk.

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154764	15-10-1980	CIL INC. 630, Dorchester Blvd. West, Montreal, Quebec, Canada.	Apparatus for treating waste, mixed liquor and method for treatment of activated sludge waste.
165902	9-7-1986	Colortech Inc. 8011, Dixie Road Brampton Ontario, Canada L & T 3 V1.	Method and apparatus for forming extruded products.
153679	29-1-1980	CPC International, Inc. International Plaza, Englewood, cliffs, New Jersey 07632, USA.	Process and installation for the continuous manufacture of starch adhesives.
160786	19-3-1981	CPC. International Incorporated, International Plaza, Englewood cliffs, New Jersey 07632, USA.	A process for the preparation of an adhesive composition.
154752	4-1-1982	Council of Scientific and & Industrial Research (CSIR) Rafi Marg, New Delhi-110001, India.	An improved process for the extraction of metal values of copper, lead and zinc from sulphur ores or ores concentrates.
153417	29-2-1981	Do.	Improved process for the preparation of active manganese dioxide from pure manganese carbonate.
153686	30-4-1981	Do.	An improved process for the production of sodium dichromate.
154064	3-7-1981	Do.	An improved process for Delilication of Black/Green Liquors obtained as waste liquors of paper and Allied Industries.
155444	27-2-1981	Do.	Process for the extraction and sulphurization of JoJOBA oil for use as a lubricant.
156026	30-6-1982	Do.	An improved process for the electrolytic deposition of copper-tin alloys from cyanide baths on metal substrates.
156460	12-6-1982	Council of Scientific & Industrial Research, New Delhi.	Production of stabilized coal oil slurry.
156463	25-6-1981	Do.	Improved process for the electrolytic production of chromium deposition on nickel plated metal substrates.
157059	30-12-1982	Do.	Improvements in or relating to lithium manganese dioxide nonaqueous button cells.
157060	30-12-1982	Do.	An improved high build anticorrosive paint composition for use in marine environments.
157110	7-1-1983	Do.	A process for the preparation of precipitated calcium carbonate from carbide lime sludge.
157396	21-3-1983	Do.	An improved process for immersion stripping of nickel electrodeposits from steel and stainless steel substrates.
157508	31-12-1981	Do.	Improved process for the manufacture of carbon fibres from polyacrylonitrile fibres.
157565	23-1-1982	Do.	A process for the preparation of indelible ink for making a permanent mark on a substrate.
157865	25-6-1983	Do.	Process for the preparation of plasticizer material for use in plastic industry.
158085	25-6-1982	Do.	An improved process for the preparation of stable maganous oxide (MnO).

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158331	19-5-1982	Council of Scientific & Industrial Research, New Delhi.	A process for the recovery of lead and zinc values from more cake.
158462	23-10-1982	Do.	A process for the preparation of catalyst for isomerisation of alkyl aromatic compounds.
158655	26-11-1983	Do.	Improvements in or relating to the preparation of lithium tetra chloroaluminate.
158975	24-7-1982	Do.	Process for the preparation of Diosgenin anti-sera for use in the determination of diosgenin in a plant material.
158990	29-11-1983	Do.	Improvements in or relating to a process for the extraction of copper lead & zinc metal values from complex sulphide ores, concentrates.
159041	17-3-1983	Do.	Process for the preparation of improved cationic fat liquor from vegetable oil.
159186	18-5-1984	Do.	An improved process for the preparation of a metal sulphate.
159412	23-5-1984	Do.	An improved flux composition.
160274	27-5-1985	Do.	Improvements in or relating to the preparation of water borne self curing zinc silicate coatings.
160355	26-9-1984	Do.	An improved process for the preparation of aluminium or aluminium alloys.
160403	2-5-1984	Do.	An improved process for the treatment of coir/coir products to make them fire/flamm retardant and coir/coir products to treated.
160478	18-3-1985	Do.	An improved process for the extraction of copper, nickel, cobalt manganese metal values and from deep sea manganese nodules.
160520	10-12-1984	Do.	A process for the extraction of cobalt, nickel and copper from copper converter slags with ammonium sulphate roasting at low temperatures.
160535	10-12-1984	Do.	A process for the extraction of copper nickel and cobalt metal values from manganese sea nodules.
160536	10-12-1984	Do.	A process for the extraction of copper, nickel and cobalt metal values from sea bed manganese nodules.
160753	23-3-1985	Do.	A process for the extraction of Garcinol hydroxyeptric acid and anthocyanins which are useful in food industry as colouring additives from kokum plant (Garcinia Indica).
160754	16-5-1986	Do.	An inhibitor composition for protection of metal alloys from sea water.
160756	25-1-1985	Do.	Process for the preparation of new catalyst composite material useful for the conversion of alkanols to hydrocarbons.
160979	14-10-1985	Do.	A process for the preparation of thickner material from the plant litsea polyantha for use in the textile printing industry.

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161056	9-7-1984	Council of Scientific Industrial Research, New Delhi.	An improved process for the preparation of zinc sulphide silver phosphor blue photoluminescent materials.
161271	16-4-1985	Do	A process for the preparation of rigid polyvinylchloride and polyacrylates alloys.
161411	18-7-1985	Do	An improved process for the preparation of manganese sulphate.
161412	21-6-1985	Do	Improvements in or relating to electro chemical synthesis of polyindole.
161457	13-8-1984	Do	A process for the preparation of a composition useful for coating rusted surfaces.
161570	26-12-1984	Do	An improved process for the recovery of metallic copper from copper converter slag or any other oxidised copper bearing material.
161612	4-7-1984	Do	An improved process for the preparation of sym-N, N-disubstituted diaryl urea compounds.
161644	9-7-1984	Do	An improved process for the recovery of lead from a complex sulphide ores concentrate.
161649	23-3-1985	Do	A process for the recovery of silver from waste hypo solutions available from photographic industries.
162087	14-1-1985	Do	A process for the preparation of alumina based nickel catalysts.
162097	5-3-1985	Do	An improved process for the extraction of copper from chalcopyrite concentrate through bacterial leaching technique.
162297	10-12-1984	Do	A process for the preparation of a non-corrosive flux for soft soldering of copper and copper based alloys.
162504	4-10-1985	Do	An improved process for the preparation of purified colloidal graphite having 0.1 to 2 micron particle size.
162522	5-12-1985	Do	An improved process for the preparation of tetrabromo bisphenol-A.
162876	16-6-1984	Do	An improved process for the selective separation of linear terminal olefinic hydrocarbons and n-paraffins from petroleum fraction.
162912	6-5-1986	Do	A process for the simultaneous preparation of sodium vanadate and zeolite by the thermal treatment of vanadium sludge.
163054	22-7-1985	Do	Improvements in or relating to the preparation of epoxy polyamide titanium dioxide paint for irradiation resistant coatings.
163387	18-7-1985	Do	Process for the production of a smokeless solid fuel fired domestic oven and appliances.

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163588	23-3-1995	Council of Scientific Industrial Research, New Delhi, India.	An improved process for production of fluid pumpable non-settling concentrated Water based slurry fuel.
163677	15-5-1985	Do	A process for the removal of tarnished film from the surface of articles of silver copper and their respective alloys.
163810	31-7-1985	Do	A process for the separation of stigmastrol derived products of 22S, 23S, and 22R, 23R-ISO-mers of 22, 23, Dihydroxy-24S-ethyl-30C-5-cyclo-5-cyclo-5-cholestan 6-ones from phytosterols of sugarcane wax.
163832	1-7-1985	Do	Process for the preparation of predominantly cationic balse titanium tanning extract for use as a tanning material.
164270	30-12-1985	Do	Improvements in or relating to a process for the preparation of corrosion/scale inhibitors suitable for prevention of metallic corrosion & scale formation in system using different grades of Water.
164271	31-12-1985	Do	Process for the preparation of a stabilizer to inhibit a catalytic decomposition of hydrogen peroxide added in pickling baths of copper and copper based alloys.
164274	31-10-1985	Do	An improved process for the extraction of nickel from lateritic nickel ores.
164411	21-2-1986	Do	A process for the production of stabilized coal water slurry useful as substitute for petroleum based fuel oil.
164415	31-7-1985	Do	A process for preparing transparent sheets for document copying purposes and the transparent sheets so prepared.
164457	6-3-1986	Do	An improved process for the preparation of stable anionic fat liquors based on glyceride oils having iodine values less than 100.
164487	25-3-1986	Do	An improved process for refining of aluminium & its alloys.
164581	23-7-1986	Do	A process for the preparation of a new aluminium based alloy anode for cathodic protection of structures submerged both in saline & fresh waters.
164652	29-10-1986	Do	A process for the preparation of zinc rich primer based on alkyl silicate for corrosion protection of steel.
164654	16-6-1986	Do	An improved process for diffusion aluminising of shaped articles of low carbon steel and low alloy steel.
164706	14-10-1985	Do	An improved alkaline primary battery cell.
164775	31-12-1985	Do	A process for preparing polymer bonded clay useful for surface treatment, water proofing and moth proofing of articles.

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164964	30-8-1985	Council of Scientific Industrial Research, New Delhi.	An Improved process for the extraction of vanadium pentoxide from vanadium bearing titaniferrous magnetites or any other vanadium bearing materials.
164973	1-1-1987	Do	A process for the production of pure silica & oxalic acid from paddy husk.
165155	18-7-1985	Do	An improved device for joining precast piles in segments.
165156	18-7-1985	Do	An improved device for joining precast concrete piles.
165157	18-7-1985	Do	Improved device for joining precast piles.
165158	18-7-1985	Do	An improved device for joining of precast piles.
165431	12-8-1986	Do	A process for the manufacture of submicron gate gas mestets using contact photo lithography.
165506	18-7-1985	Do	Improvements in or relating to a process for the preparation of an inhibitor suitable for batch and continuous packing of steel in hydrochloric acid solution.
165510	12-2-1987	Do	A process for the preparation of nitro potassic fertilizers & technical grade potassium nitrate from mixed salt.
165730	10-12-1986	Do	A process for the isolation of a new highly specific sialic acid binding lectin (ach-atinin) from achalina flulica snail.
165763	31-7-1985	Do	Improvement in the preparation of pharmaceutical formulations in the form of suspensions.
165920	11-12-1986	Do	A process for the preparation of low molecular weight nylonese from china strain.
165976	16-6-1986	Do	A method of production of hydrogen from biological wastes.
165977	11-8-1987	Do	Improved electrolytic cell for the production of calcium gluconate.
166181	5-5-1987	Do	An improved process for preparation of -2 bromo-1-phenylethanol.
166250	26-12-1986	Do	A process for the preparation of 2, 2'-disubstituted or unsubstituted 5, 5'-dibenzimidazolyl ketones.
166284	31-3-1986	Do	A process for the preparation of collagen derivative from rejected and poor quality hides and skins useful for incorporation in cosmetic formulations.
166411	20-9-1985	Do	Improvements in or relating to a process for the preparation of ceramic magnets.
166420	29-1-1988	Do	A process for the synthesis of novel 2-substituted 1, 2, 3, 4, 6, 6-a, 7, 11-b, 12, 12-a decahydropyrazino (2'-1 : 6-1) Pyrido (3, 4-b)—indoles.

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166439	27-11-1987	Council of Scientific Industrial Research New Delhi	A process for the manufacture of red mud filled PVC composite material.
166478	10-7-1986	Do	An improved process for the production of moulded slate with inbuilt frame.
166491	24-11-1987	Do	A process for the preparation of new cera- mic membrane for water filtration.
166586	30-6-1986	Do	A process for the preparation of phenyl hydrozone acetoacetamide derivative.
166666	13-8-1986	Do	A process for preparation of anhydrous iron (II) sulphate.
166734	25-3-1986	Do	Improved process for the production of tri- chlorosilane (TCS) from silicon tetrachloride.
166826	17-6-1986	Do	A process for the preparation of water dis- persable maleinised fatty derivatives for incorporation in tanned leathers for impar- ting water repellency.
166830	24-12-1986	Do	A process for the enrichment of silica in commercial sodium silicate solutions.
166853	5-6-1987	Do	A process for the electrosynthesis of con- ducting polythienylenes.
167019	17-10-1986	Do	An improved process for the manufacture of high sensitivity thermistors.
167023	25-4-1986	Do	A process for the preparation of 1-formyl- 4-substituted piperazines useful as male fer- tility regulating agents.
167205	12-6-1986	Do	A process for desulphurization of high sul- phur coal.
167210	23-7-1987	Do	A process for the preparation of 2, 7-dia- midinozanthene or thioxanthenes.
167305	21-4-1986	Do	An improved process for the production of alumina from low grade and submarginal bauxite.
167482	25-4-1986	Do	A process for the recovery of nickel and cobalt from copper converter slag or their oxidic ores.
167484	1-7-1986	Do	An improved process for cold pelletization of chrome ore fine and concentrates.
167491	3-12-1986	Do	A process for the synthesis of novel cis- 1, 2, 3, 4, 4-a, 5, 6, 11-C octahydro-7Y- pyrido (2, 3-c) carbazole.
167492	3-12-1986	Do	A process for the synthesis of cis-1-alkyl substituted 1, 2, 3, 4, 4-a, 5, 11, 11-a, octa- hydro-6H-pyrido, (3, 2-b) carbazole.
167493	3-12-1986	Do	A process for the synthesis of cis-4-alkyl- substituted 1, 2, 3, 4, 4-a, 5, 6, 11-C octa- hydro-7H-pyrido (2, 3-c).
167494	3-12-1986	Do	A process for the synthesis of cis-4-methyl 1, 2, 3, 4, 4-a, 5, 6, 11-c octahydro-7H-pyrido (2, 3-c) carbazole.

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167500	31-12-1987	Council of Scientific Industrial Research New Delhi.	A process for the preparation of 2-amino-4-alkyl-6, alkoxy-s-triazines.
167581	4-6-1986	Do	A method for the preparation of high-pure synthesis iron (III) oxide of ferrite grade.
167663	10-7-1986	Do	A process for the production of fertilizer grade potassium salts, and silica residue from biotite mica.
167668	22-2-1988	Do	An improved process for electroless nickel coating cutting tools dies and moulds.
167734	24-3-1987	Do	An improved process for the production of high alumina cement clinkers and the like containing alumina ranging from 45 to 80 percent.
167438	18-9-1987	Do	A process for the preparation of an enzyme B-galactosidase useful for reducing the content of lactose in lactose containing products like milk way and other daily products.
167740	17-11-1987	Do	A process for the preparation of an antiserum highly specific to estradiol.
167769	8-10-1987	Do	A process for the preparation of controlled release agrochemical granules.
167840	8-12-1987	Do	Process for the preparation of 3, 5-xyleneol.
167932	23-7-1987	Do	A process for the preparation of 2, 7-di amidiazathione thioxathione.
167936	5-12-1986	Do	Lubricating oil composition for two stroke petrol engine.
177996	29-10-1986	Do	A process for direct electrowinning of lead metal from galena concentrates.
178022	10-7-1986	Do	Production of fertilizer grade potassium salts and simultaneous recovery of alumino silica as a by product from muscovite mica.
163756	22-7-1986	Dainippon Ink & Chemicals Inc. 35-58, 3-chome, Sakashita, Itabashi-k. Tokyo, Japan.	Method of producing deodorants.
155304	20-1-1981	Davy McKee (Stockton) Ltd. Stockton-on-Tees, England, TS 18, 3RE U. K.	Method and apparatus for the direct reduction of materials containing iron oxides.
155319	20-1-1981	Do	A process and a system for reducing materials containing iron oxides.
155324	29-1-1981	Do	Process and apparatus for directly reducing ore containing iron oxides.
156850	6-8-1981	Do	A process for the direct reduction of materials containing iron oxides.
156910	29-8-1981	Do	Apparatus for directly reducing materials containing iron oxides.
154852	29-9-1980	DCM Ltd. Kanchenjunga Bldg. Barakhamba Road, New Delhi-110001, India.	A process for manufacture of portland cement from waste sludge.

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155261	8-8-1980	Degussa AG, Frankfurt/Main 6450, Hanau I, Postfach, F. R. G.	Silane / Filler preparation, a process, for their production.
155277	8-8-1980	Degussa AG, Frankfurt/Main, 6450, Hanau I, Postfach 1345, Federal Republic of Germany.	A process for manufacturing of corrosion resistant building materials.
160110	25-8-1983	Degussa AG, Weisstaubstrasse 9, 6000, Frankfurt (Main), F. R. G.	Process and apparatus for producing carbon black.
161552	26-10-1983	Do	A continuous co-current process for carrying out catalytic hydrogenation with hydrogen or a hydrogen containing gas for the production of hydrogen succide by the so-called anthracene process.
161676	31-12-1983	Do	A process for the production of regenerants for carburizing salt baths.
162212	21-4-1984	Do	Process for the production of natural cellulosic or silicatic fillers modified at the surface.
164644	15-10-1985	Do	Process for preparing bis-(2), et ylamino-4, Diethylamino-5-Triazin-6 YLtetrasulphide.
164686	16-7-1985	Do	A process for the production of fillers.
168086	13-3-1987	Do	A process for a dry carbonization of galactomannan.
168505	15-10-1985	Do	A novel method of producing vulcanized product.
159344	4-6-1983	Delhi Cloth & General Mills Co. Ltd.,	An improved process for the manufacture of hydrated calcium Hypochlorite.
159345	4-6-1983	Delhi Cloth & General Mills Co. Ltd.,	An improved process for the manufacture of hydrated calcium hypochlorite.
159346	4-6-1983	Do	An improved process for the manufacture of hydrated calcium Hypochlorite.
154556	49-8-1980	Dr. Beck & Co. Kg., 2000 Hamburg, 28, Grossmannstresse, 105, F. R. G.	Process for the manufacture of insulated winding wires through extrusion of thermoplastics.
152657	30-6-1980	Dr. C. Otto & Comp. Chrstrasse 9, 4630, Bochum, West Germany.	A method of manufacture of coke.
155388	12-2-1981	Do	A process for preparing quenched coke from hot coke and for simultaneously producing water gas by using sensible heat of hot gas.
158981	15-2-1983	Do	A method of obtaining an optimum yield of gas of optimal quality by gasification of high ash-content bituminous fuels in a gasifier.
168023	2-9-1986	Dresser, U. K. Ltd., England.	An Electroprecipitator collector electrode system.
168516	23-4-1984	E. I. Du Pont De Nemours & Co.	A crimped filament of poly ethylene terephthalat.
165884	9-2-1987	Laboratori Guidotti spa, Via. Trieste 40, Pisa 56100, Italy.	Process for the preparation of quaternary amonium derivatives of novel esters of N-alkyl norbornenes.

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164363	27-5-1985	E. I. Du Pont De Nemours Company.	A filled hardenable resin composition.
165657	24-4-1986	Do	A process for producing dimethyl amine.
165888	20-4-1987	Do	Continuous filament polyester yarn having improved properties.
168993	24-4-1987	Do	A method for the preparation of a pigment consisting essentially of rutile TiO_2 particles bearing coatings of alumina or alumina-silica.
168994	24-4-1987	Do	A process for preparing TiO_2 particles bearing coating of boron-modified silica.
169033	17-5-1988	Do	An improved fibrous pulp of oriented polyethylene fibrous and process for making same.
160236	17-1-1989	Do	Azeotropic compositions of 1, 1-Dichloro-1-Fluoroethane and Methanol ethanol.
165476	18-5-1987	Emory University, 1380 South Oxford Road, Atlanta, Georgia 30322, USA.	Process for preparing an improved fibri-nolytic composition.
165949	24-2-1987	Engelhard Corporation Menia Park, CN 28 Edison, New Jersey 08818, USA.	A method for maning a fluid catalytic cracking catalyst for cracking petroleum feedstocks.
159835	12-5-1983	Exxon Research & Engineering Co.	A process for treating a gaseous stream containing CO_2 to remove said CO_2 .
161503	10-10-1984	Exxon Research & Engineering Company of 200, Park Avenue, Florhan Park, New Jersey, U. S. A.	A method of purifying N methyl-2-pyrrolidine solvent.
168800	15-6-1988	FMC Corporation, 200, East Randolph Drive, Chicago, Illinois 60601, USA.	A process for convertin a strating mixture of crystallizable pyrethroid somers to desired more pesticidaly active isomers.
159721	29-9-1983	Fonderies Montupet 4, Route de chatou 92000, Nanterre, Franco.	Process for the production of composite alloys based on aluminium and Boron.
152876	2-5-1980	General Electric Company, 1River Road, Schenectady, 5, New York, U. S. A.	Production of cubic boron nitride from powdered hexagonal boron nitride.
153075	9-4-1980	Do	Process for preparing a polycrystalline diamond body.
157594	27-5-1982	Do	Improved process for making diamond and cubic boron nitride compacts.
164571	18-11-1985	Do	Improved industrial gas turbine components.
169043	1-2-1988	Do	A process for the manufacture of an oxidation and hot corrosion resistant composite article.
164764	20-11-1985	Georg Fischer, Allengesellschaft, CH-8201 Schaffhausen, Switzerland.	A method of producing refined metal from metal containing elemental impurities.
165388	14-2-1986	Do	Method for the production of cast iron melt treated with magnesium in a casting process.
166425	4-11-1986	Giulini Chemic GmbH, Gulnistr-2, 6700, Ludwigshafen, West Germany.	A process for producing a three dimensional stiffening elements.
158669	22-11-1982	Glaverbel, Chaussee de la Hulpe 166, B-1170, Bruxelles, Belgium.	

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164064	23-12-1985	Gujarat State Fertilizers Co. Ltd., P. O. Fertilizer Nagar, Dist. Vadodara, Gujarat. India.	A process for the manufacture of copolymers of styrene and acrylonitrile.
164871	23-12-1985	Gujarat State Fertilizers Co. Ltd., P. I. Fertilizer Nagar, Dist. Vadodara, Gujarat. India	Process for the recovery of sodium sulphate & mono carboxylic acids & di-carboxylic acids from carbolactam waste liquor.
164872	31-12-1985	Gujarat State Fertilizers Co. Ltd., India.	Process for the recovery of sodium sulphate & mono carboxy acids from caprolactam waste streams.
166304	14-4-1987	Do	Improvements in or relating to a method of preparing methyl esters of dicarboxylic acid.
180204	24-7-1980	Hindustan Lever Ltd., Bombay. India.	A process for making plant growth nutrient/ stimulant.
151317	29-1-1981	Do	Process for the manufacture of water solu- ble alkali metal salts of-sulphonated alkyl esters of long chain fatty acids.
151322	18-1-1980	Do	Liquid duty dishwashing liquid detergent compositions.
151711	6-7-1981	Do	A process for preparing hardened and dehydroxylated esater fatty acid feed stock.
151862	26-7-1982	Do	A method for the preparation of precipita- ted silican in powder from suitable for use in dental preparations such as transparent/tra- nslucent tooth pastes.
152715	4-9-1981	Do	A method for preparing non-edible dehyd- roxylated short chain (C14-0 (4) esters of hardened esater acids for use in soap making, lubricants and paints.
153988	6-8-1980	Do	Synergistic deodorant compositions.
153989	6-8-1980	Do	Synergistic deodorant compositions.
153990	4-9-1981	Do	Method of deoiling of slack waxes and the deoiled slack wax obtained thereby.
153991	15-9-1980	Do	A synergistic liquid dishwashing detergent composition for washing plates, dishes and saucepans.
153992	17-3-1982	Do	Method of upgrading linalyl acetate by re- moving chlorine from impurities.
154705	12-1-1981	Hindustan Lever Ltd., 165-166 Backbay Reclamation, Bombay-400020, Maharashtra, India.	A process for preparing spray-dried deter- gent powders and detergent powders so pre- pared.
154776	7-2-1981	Do	Process for the manufacture of calcium soap.
154777	7-2-1981	Do	A process for the preparation of an alkali metal of an organic carboxylic acid.
155041	9-4-1981	Do	A detergent bar having halite material for washing in ultra-violet light.

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155044	5-9-1981	Hindustan Lever Ltd, Bombay, India	A method of manufacturing built detergent bars of improved hardness.
155045	5-9-1981	Do	A method of manufacturing built detergent bars of improved hardness.
155073	17-3-1982	Do	Detergent bars having improved resistance to sogginess and reduced rate of water.
155097	17-6-1981	Do	Particulate soap-based detergent composition.
155099	17-3-1982	Do	A process for the preparation of acyloxy-methyl derivative capable of being used as perfumery component from hydrocarbon by-product.
155244	18-11-1982	Do	A process of making soap.
155758	10-9-1981	Do	A high internal phase water-in-oil emulsion and a process for preparing the same.
156181	21-12-1982	Do	A bleaching composition comprising a peroxide compound and a heavy metal compound.
156193	29-5-1982	Do	A process for the preparation of alkali-metal isethionates from ethionic acid.
156223	02-09-1983	Do	A method for the regeneration and reuse of spent adsorbent beds of a series of adsorption beds in the process of refining fats.
156224	2-9-1983	Do	A process for the regeneration of spent adsorbent used for refining fatty material.
156361	2-9-1983	Do	An improved process for preparing adsorbent refractory pellets for use in refining fatty materials.
156362	2-9-1983	Do	Process for regenerating conventional spent adsorbent used for refining fatty material.
156363	11-8-1982	Do	Manufacture of acyl isethionates.
156389	26-7-1982	Do	A synergistic detergent composition.
157133	25-3-1983	Do	An improved process for preparing superfatted soap bars having improved properties such as improved lather and reduced mush properties from conventional raw materials and soap thereby obtained.
157134	25-3-1983	Do	An improved method of subjecting a soap containing material to a hardening process to obtain hard soap bar and soap bars obtained thereby.
157135	25-3-1983	Do	An improved process for processing soap feed stocks to provide soap bars having reduced grittiness and soap bars obtained thereby.
157137	25-3-1983	Do	An improved process for preparing soap bars having increased transparency and soap bars thereby obtained.

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157143	5-5-1983	Hindustan Lever Ltd, Bombay, India	A process for the preparation of nickle upon transition alumina catalysts.
157274	25-3-1983	Do	An process for the preparing soap bars having modified phases and soap bars obtained thereby.
157420	9-3-1984	Do	Improved peroxide adduct containg bleach compositions.
157422	17-6-1983	Do	Process for the preparation of amorphous Hydrated sodium aluminosilicates.
157579	11-4-1984	Do	Method for preparing a heterogeneous highly active silica sypported nickle catalysts.
158157	10-11-1983	Do	A liquid detergent composition having high foaming characteristics.
158159	10-11-1983	Do	A liquid detergent composition having high foaming characteristics.
158201	11-6-1984	Do	An improved process for the preparation of carboxyalkyl derivatives of polygalactomannans.
158390	18-8-1983	Do	A liquid scouring cleanser composition.
158632	10-1-1983	Do	A liquid detergent composition having improved foaming characteristics.
158636	16-12-1983	Do	A built detergent bleach composition containing manganese compound which delivers manganeseions in aqueous solutions.
158761	14-3-1985	Do	Powder detergent compositions with modified sodium chloride.
158778	22-1-1985	Do	A method for sulphonation of fatty acid esters.
158779	12-12-1983	Do	A particulate solid detergent composition.
159778	19-1-1984	Do	A process for the manufacture of a detergent active dialkyl sulphosuccinate mixture.
159783	2-5-1984	Do	An improved bleaching and cleaning composition.
158784	7-3-1984	Do	Processing of polysaccharides.
158827	29-5-1982	Do	A process for the preparation of surface active fatty acid ester of alkali metal isethionodes.
159933	15-10-1984	Do	Process for preparation of transparent detergent bars.
159938	6-11-1984	Do	A method of preparing manganese adjuncts for use as bleach catalyst.
159969	27-6-1985	Do	A process for preparing a plant growth nutrient composition.
160006	25-9-1984	Do	A stable gas entrained toothpaste having increased viscosity and fluffy appearance.
160030	24-7-1982	Do	A process for the preparation of detergent compositions.
160031	24-7-1982	Do	A Synergistic detergent composition.

1	2	3	4
160645	14-1-1985	Hindustan Lever Ltd., Bombay, India.	Improved method of preparing modified sodium chloride for use in powder detergent compositions.
160861	4-12-1984	Do.	Alkaline built detergent bleach compositions.
160862	4-12-1984	Do.	Alkaline built detergent bleach compositions.
161099	23-11-1984	Do.	Detergent compositions.
161100	29-1-1986	Do.	A process for the manufacture of aluminium fluoride from ammonium fluoride.
161103	20-12-1984	Do.	Process for preparing a transition metal silicate catalyst.
161104	3-12-1985	Do.	Improvements in or relating to process for the preparation of acetylindans.
161109	28-1-1985	Do.	A method of manufacturing fatty acid (C8—C22) ester (C1—C4) sulphonates.
161111	7-6-1985	Do.	Particulate built detergent compositions.
161316	5-5-1983	Do.	An improved process for hydrogenation reaction using improved nickel upon alumina catalyst.
161316	29-1-1986	Do.	A process for recovering fluorine value from sodium fluorosilicate.
162037	22-8-1986	Do.	An improved process for the recovery of fatty acids from the oxidate obtained by oxidation of normal paraffins.
162412	25-2-1985	Do.	Aqueous detergent compositions.
162417	5-7-1985	Do.	Process for the preparation of Nickel/alumina catalysts.
162418	5-7-1985	Do.	Process for the preparation of Nickel/alumina silicate catalysts.
162632	9-5-1985	Do.	Detergent compositions.
162633	9-5-1985	Do.	Homogeneous foaming detergent composition in gel form.
162637	2-9-1985	Do.	An improved process for the manufacture of built detergent bars.
163033	28-6-1985	Do.	A built detergent bar composition.
163034	5-7-1985	Do.	A process for preparing lavatory cleansing blocks free from paradichlorobenzene and lavatory cleaning blocks thereby obtained.
163495	24-7-1985	Do.	An improved built detergent composition in bar form.
163723	5-5-1986	Do.	Silicate-free detergent granules and method of producing same.
163728	12-11-1986	Do.	Process for making toothpaste.
163868	9-9-1986	Do.	Soap based detergent compositions.
163870	4-10-1985	Do.	A process for preparing an oil-in-water emulsion suitable for topical application to human skin.

1	2	3	4
163877	11-12-1986	Hindustan Lever Ltd., Bombay, India.	Method of preparing a two part oral hygiene product.
163971	11-10-1985	Do.	Process for the preparation of sulphonated mixture of fatty acid ester and or organic compound, the sulphonation products whereof is detergent active.
164296	7-2-1986	Do.	A process for the manufacture of built laundry bars.
164354	20-1-1986	Do.	Process for preparing toilet bar compositions.
164877	16-6-1986	Do.	Homogeneous foaming detergent composition in liquid or gel form.
164931	7-2-1986	Do.	A method of making built detergent bars.
165351	20-1-1986	Do.	A process for the preparation of a spray dried detergent powder and a spraydried powder thereby produced.
165353	12-3-1986	Do.	Process for preparing bleach-containing laundry bars for the use in the hand-washing of fabric.
165357	16-6-1986	Do.	Liquid detergent composition.
165359	9-9-1986	Do.	Process for preparing particulate detergent composition.
165621	4-3-1986	Do.	Manufacturing process in which chemical reaction of at least two reactants is effected in a cavity transfer mixer.
165622	16-6-1986	Do.	Process of preparing a built detergent paste.
165624	30-7-1986	Do.	A composition suitable for topical application to mammalian skin for promoting or enhancing the growth of hair.
165628	15-10-1986	Do.	Process for making a detergent component suitable for manufacture into a bar component.
166041	12-3-1986	Do.	Process for preparing laundry bars for use in the handwashing of fabrics.
166045	13-8-1986	Do.	An aqueous detergent composition.
166046	13-8-1986	Do.	An aqueous detergent composition.
166047	13-8-1986	Do.	A built or unbuilt aqueous fabric washing detergent composition.
166050	29-10-1986	Do.	Process for the production of a powder suitable for use as a granular detergent composition or a component thereof.
166073	10-3-1987	Do.	A bleaching composition.
166119	1-10-1987	Do.	Method of preparing a two part oral preparation.
166153	9-1-1987	Do.	An aqueous shampoo.
166157	13-2-1987	Do.	Detergent composition.
166205	27-7-1987	Do.	Process for the manufacture of an aqueous single phase composition particularly for use in the treatment of keratinous fibres.

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166302	10-3-1987	Hindustan Lever Ltd., Bombay, India.	Composition suitable for topical application to human skin.
166307	13-6-1988	Do.	Process for the preparation of particulate material for detergent composition.
166762	13-4-1987	Do.	Process for the production of a granular solid suitable use as a detergent powder or a component thereof.
166763	20-5-1987	Do.	Detergent composition.
166783	29-1-1988	Do.	A fabric treatments composition with fabric softening properties.
166786	12-5-1988	Do.	Detergent composition for washing and softening fabrics.
166787	26-7-1988	Do.	Humectants for skin treating composition
166801	03-11-1987	Do.	Process for preparing transparent soap compositions.
166802	27-7-1987	Do.	Method of producing active gamma-Hydroxydecanoic acid and optionally lactonised-product thereof.
166804	19-9-1987	Do.	Process for manufacturing detergent bars having improved hardness.
166806	29-9-1987	Do.	Process for manufacturing detergent bars with improved hardness.
166902	14-3-1988	Do.	A Toothpaste.
166979	21-12-1987	Do.	Hair growth promoting cosmetic composition for applying to mammalian skin or hair.
166992	3-11-1987	Do.	Detergent granules and a process for their preparation.
166996	25-2-1988	Do.	A process for the preparation of an aqueous detergent composition.
167063	18-12-1987	Do.	Cosmetic composition for topical application to mammalian skin or scalp.
167137	9-6-1988	Do.	Cosmetic composition for topical application to mammalian skin.
167461	7-6-1988	Do.	Soap based detergent compositions.
167465	3-6-1988	Do.	Process for preparing a nickel transition alumina catalyst.
167523	21-9-1988	Do.	Toothpaste.
167525	10-3-1988	Do.	Detergent bleach composition.
167526	9-6-1988	Do.	Method for the preparation of oral composition which inhibits the formation of dental calculus.
167528	29-8-1988	Do.	Process for the preparation of a Tooth paste.
167771	20-12-1989	Do.	Process for producing hydrogenated unsaturated organic compounds in the presence of a transition metal silicate catalyst.

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167776	18-8-1988	Hitachi Ltd., 5-1, Marunouchi 1-chome, Chiyoda-ku, Tokyo, Japan.	Process for synthesizing a disalt of monoester of citric acid.
167963	12-10-1988	Do.	An aqueous hair conditioning and Dyeing compositions.
167967	5-4-1989	Do.	Detergent composition.
168184	19-8-1988	Do.	Process for the preparation of tooth pastes.
168284	18-10-1988	Do.	A method for preparing an oral composition for inhibiting the formation of dental calculus.
168406	16-5-1989	Do.	Detergent composition.
168407	18-5-1989	Do.	A method for preparation of an oral com- position for combating dental caries.
168605	28-2-1989	Do.	Bleaching detergent composition.
168609	18-5-1989	Do.	A process for preparing a substantially fluorine free oral preparation having an anti caries activity.
168714	20-3-1989	Do.	Liquid detergent composition.
168787	12-10-1988	Do.	Detergent composition.
168812	16-12-1988	Do.	A process for preparing a tooth paste having antimicrobial activity packaged within a closed container.
168841	11-11-1988	Do.	Detergent composition comprising fabric softening clay material.
168842	28-2-1989	Do.	Method for preparing a toothpaste compo- sition.
168848	24-1-1990	Do.	Method of making an anti-caries tooth paste.
169245	29-12-1988	Do.	Process for preparing a nickel/silica catalyst.
169426	11-5-1989	Do.	A non aqueous drug free cosmetic com- position containing ester of pyroglutamic acid.
169444	18-5-1989	Do.	A process for preparing oral composition for the treatment of sensitive teeth.
169829	21-6-1989	Do.	Method of refining glyceride oils.
161119	28-1-1984	Do.	Candle refining process and apparatus.
152496	3-11-1980	Hoechst Ag. of D-6230, Frankfurt, an Main 80, Federal Republic of Germany.	A process for the manufacture of copper complex formazan compounds.
153408	3-11-1980	Do.	Process for the preparation of copper formazan compounds.
153853	16-5-1981	Do.	Process for dyeing and printing fibre materials containing or consisting of natural cellulose fibers, regenerated cellulose fibers, natural polyamide fibres and/or synthetic polyamide fibres.
155165	18-3-1981	Do.	Process for preparing water soluble Azo compounds.

1	2	3	4
155772	26-4-1982	Hoechst AG, Federal Republic of Germany.	Process for preparing a thraquinone compounds.
156063	8-12-1982	Do.	Process for making 1,2-dichloroethane.
156278	18-10-1982	Do.	Process for preparing water soluble monoazo-pyridone compounds.
156403	16-5-1981	Do.	Process for the preparation of water soluble metal free or heavy metal complex compound.
156876	14-10-1981	Do.	Process for preparing dust free pigment granules of high tinctorial strength.
156989	31-3-1982	Do.	Process for the preparation of disazo compounds.
157455	5-5-1983	Do.	Process for preparing water soluble azo compound.
157470	16-5-1981	Do.	Process for the manufacture of water soluble phthalocyanine dyestuffs.
157495	14-5-1982	Do.	Process for preparing water-soluble disazo compounds.
157496	13-8-1982	Do.	Process for preparing water-soluble disazo compounds.
157497	21-1-1983	Do.	Process for preparing water-soluble disazo compounds.
157990	16-5-1981	Do.	Process for the manufacture of water-soluble phthalocyanine dyestuffs.
157668	16-5-1981	Do.	Process for the manufacture of water-soluble phthalocyanine dyestuffs.
158147	16-5-1981	Do.	Process for the manufacture of a metal free or heavy-metal complex dyestuff containing a sulfo group.
158237	15-10-1982	Do.	Process for preparing water soluble azo compounds.
158270	2-5-1983	Do.	A process for preparing water soluble disazo compounds.
159104	40-11-1983	Do.	Process for making 1,2-dichloroethane.
160055	15-10-1982	Do.	A process for the preparation of Water-soluble pyridone-azo compounds.
160349	8-8-1983	Do.	A process for preparing a mixture of 1:2 cobalt complex and 1:2 chromium azo dyestuffs.
161817	16-7-1984	Do.	Process for the preparation of bicyclic copper complex formazan compounds.
161970	28-3-1985	Do.	A process for separating sodium sulfate from aqueous dyestuff solutions.
162546	26-11-1984	Do.	Process for the preparation of 5-hydroxy-ethylsulfonyl-2-amino phenol and others thereof.
162547	21-2-1985	Do.	Process for separating 6-Hydroxy-2-Naphthoic acid from its isomeric Hydroxynaphthoic acids.
162758	29-10-1984	Do.	Process for the preparation of B-sulfato ethyl-sulfonyl-o-amino phenols.

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163479	31-7-1986	Hoechst Aktiengesellschaft, F.R. of Germany.	A process for the preparation of aromatic dialkylamines.
163701	19-11-1984	Do.	A liquid water containing dyeing preparation.
163797	15-7-1985	Do.	A process for preparing substituted phenyl hydroxyethyl sulphones.
164188	5-11-1985	Do.	Process for the preparation of monoxycidin bisoxethyl sulfonyl-anilines.
164505	17-7-1985	Do.	Process for the preparation of water soluble pyridone monazo compound as dyestuff.
164815	24-3-1986	Do.	Process for preparing 4-4'-diaminodiphenyl compound.
164835	30-10-1985	Do.	Process for preparing highly concentrated aqueous press cakes of organic solids.
165016	28-10-1985	Do.	Process for the preparation of copper formazan compounds.
165086	22-8-1986	Do.	Process for the preparation of water-soluble triphen-dioxazine compounds.
165208	6-8-1986	Do.	Process for the preparation of arylamino-nitrophenyl hydroxyethyl sulfones.
165430	6-10-1986	Do.	Process for the preparation of water soluble disazo compounds.
165583	14-7-1986	Do.	Process for the preparation of water soluble dyestuff.
165589	2-12-1986	Do.	Process for preparing a water soluble azo compounds.
165880	2-9-1985	Do.	Process for making desensitized pulverulent red phosphorus.
165961	12-9-1985	Do.	Apparatus for electrically separating electrolyte common mains from a bipolar electro-chemical cell pile and individual cells from each other.
166361	15-7-1985	Do.	Process for the preparation of water soluble triphen-dioxazine compounds.
166536	6-2-1987	Do.	Process for the preparing water soluble triphen-dioxaine compound and sulfonyl containing precursors thereof.
166744	8-12-1986	Do.	A process for preparing a water-soluble triphen-dioxazine compound.
167072	6-8-1986	Do.	Process for the preparation of halophenyl hydroxyethyl sulphides.
166171	2-9-1985	Do.	A process for making stabilized & desensitized pulverulent flowable red phosphorus.
167864	28-7-1987	Do.	A process for the preparation of water soluble triphenodioxazine compound.
168508	1-2-1988	Do.	Process for the preparation of the Lithium salt of a fiber-reactive azo dyestuff.
168510	11-2-1988	Do.	Process for the preparation of acetoacetylaryl amides of deactivated aromatics.

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168567	12-4-1989	Hoechst AG, Federal Republic of Germany	Process for the preparation of quinoxalones.
168810	29-9-1988	Do.	Process for the preparation of hydroxyethyl sulphonyl aminobenzoic acid.
168906	3-5-1988	Do.	At process for preparation a water soluble naphthylazopyrazolene compound.
169334	9-5-1988	Do.	Process for the preparation of water-soluble monoazo naphtholcarboxylic acid compounds.
169387	24-5-1988	Do.	A process for preparing a water soluble disazo compound.
169433	6-1-1987	Do.	Process for the preparation of water soluble phthalocyanine dyestuffs.
153504	19-12-1979	ICI Ltd., Imperial Chemical House, Millbank, London SW1P, 4QG, England.	A process for the oxidation of a substituted aromatic compound.
156777	11-6-1981	Do.	A process for producing a gas containing hydrogen.
156903	26-8-1981	Do.	A process for producing one or more carbon compounds from a carbonaceous feedstock.
157911	9-3-1982	Do.	Process for reacting carbon monoxide with steam.
158868	1-10-1981	Do.	A process for the production of ammonia.
159188	5-4-1983	Do.	Process for the production of ammonia.
159347	6-6-1983	Do.	A process for the manufacture of coloured intagliated article.
161290	20-3-1984	Do.	At two stage process & apparatus for producing hydrogen enriched gas.
161489	8-4-1985	Do.	Process and apparatus for producing ammonia.
163106	22-2-1985	Do.	A process for producing ammonia synthesis gas.
166143	30-7-1985	Do.	Method of making a pelleted precursor.
166162	12-6-1986	Do.	An aqueous coating composition.
166251	24-2-1986	Do.	A process for producing a purified ammonia synthesis gas.
167736	19-8-1986	Do.	Process for the production of a hydrogen containing gas stream.
166862	7-8-1986	Do.	A process for the production of ammonia synthesis gas.
151284	24-2-1981	Indian Aluminium Company Ltd., 1 Middleton Street, Calcutta-700071.	Process for the production of low soda alumina hydrate and calcined alumina.
164735	1-12-1986	Industrikontakt Ing. O. Eu, Kleiva 20, N-6900, Florø, Norway.	A process for recovery of oil.
169071	1-2-1989	Institut Merieux, 17 Rue Bourgetal 69002, Lyon, France.	Process for the large scale production of rabies vaccine.
169072	1-2-1989	Do.	Process for the large-scale production of a vaccine against poliomyelitis.

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161697	4-7-1984	Instytut ciezuies, syntezy, organicanci Blachuwma, etc. Kedzeryn-kozie, Poland.	Method for the manufacture of allyl chloride.
161311	5-5-1986	Ion Exchange (India) Ltd., Ticicon Houe. Dr. E. Moses Road, Mahalaxmi, Bombay-400 011.	Preparation of improved isoporous anion ex- change resin.
161593	16-12-1985	Do.	A process for preparing an electron exchange resin specifically suited for the removal of iron from water.
166910	27-10-1987	Do.	A process for preparing improved cation ex- change resin.
153857	17-2-1982	Isover Sant Gobain Les Mirociss, 18 Avenue Alsace, F-92400, Courbevoic, France.	Improvements to the process & an apparatus for forming fibres by means of centrifugation wheels.
159985	16-11-1984	Do.	Process for the preparation of a condensation product of phenol formaldehyde & urea.
161084	23-3-1983	Do.	A process for preparing fibres of thermo- plastic material such as glass & insulating product formed from said fibres.
161078	13-8-1984	K-Fuel/Koppelman, Patent Licensing Trust, 1873 South Bellaire Street, Suite 905, Denver, Colorado, 80222, USA.	Process for making aqueous transportable fuel slurry from carbonaceous materials.
157393	30-11-1981	Kerr McFee, Chemical Corporation, Kerr McGee, Center, Oklahoma City, Oklahoma USA.	Improved process for beneficiating titani- ferous materials.
160354	22-11-1983	Do.	Process for producing titanium tetrachloride.
160498	9-3-1984	Do.	Process for producing tetrachloride from natural or synthetic titanium ore, carbona- ceous reductant and chloride.
160499	9-3-1984	Do.	Process for production of titanium dioxide from titanium ores.
156822	10-9-1982	Kimura kokoki Co. Ltd. 1-1 Aza Ueshima, kaise, Amagasaki, shi, Japan.	A process for evaporating and concentrating an aqueous acid solution.
166837	5-3-1987	Klockner Cra Patent GMBH, Klocknerstrasse 29, Duisburg 4100, West Germany.	A method for the melt reduction of iron ores.
168332	19-6-1987	KM-Kabelmetal, Aktiengesel, Klosterstr, 29, D-4500, Osnabuck, Germany.	Process for the manufacture of a continuous casting ingot mould from a copper alloy.
154070	4-6-1982	Kontiki Chemicals & Pharmaceuticals Pvt. Ltd., of A.K. office Building Mill Road, Bali- apatnam, Cannanore-670010, Kerala, India.	Production for the production of heavy metal in adsorbent.
154863	20-1-1981	Do.	Improvements in or relating to aminoplastic synthetic resin adhesives.
158416	12-10-1984	Do.	Process for the preparation of a colouring matter from coconut shell.
166720	16-5-1988	Korea Advanced Institute 39-1, Hawologok Dong, Sungbook ku, Seoul, South Korea.	A process for the preparation of 3-(4-Bromo- biphenyl-4-yl) tetrahydro-1-one.

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155786	6-4-1981	L'Air, Liquide, Societe, Anonyme pour l'Etude Et, L'Exploitation Des Procedes Georges Claude 75, Quai Orsay-75007, Paris, France.	Improvements in or relating to processes of and apparatus for the production of ammonia synthesis gas.
163053	18-12-1984	Do.	Method and installation for recovering a mixture propane, butane and pentane from a gas containing lighter components including ethane.
165221	4-2-1986	Lanxide Technology, Corcon Trade Industrial Park, Newyork, Delaware 19711, USA.	A method for producing a self supporting ceramic composite structure.
165522	22-1-1987	Lanxide Do.	A method for producing a self supporting ceramic composite body having therein at least one cavity.
164749	4-2-1988	Lucky Ltd., 20, Yoido-Dong, Yongdangno-Gu, Seoul 150, Republic of Korea.	A process for the preparation of pyrethroid type ester compound.
168240	4-2-1988	Do.	A process for the preparation of pyrethroid benzyl ester compound.
165503	21-11-1985	Min Gatehoff Langshutte Aktiengesellschaft, Bahnhofstrasse 66, 4209 Oberhausen 11, Federal Republic of Germany.	A process for the production of synthesis gas by gussification of coal.
152949	17-6-1981	Metallgesellschaft AG, 16, Frankfurt AM, Ruterweg, West Germany.	Process of simultaneously producing fuel gas and process heat from carbonaceous materials.
156935	21-12-1982	Do.	Improvements in or relating to a process of removing pollutants from exhaust gases.
157903	11-1-1983	Do.	Process of desulfurizing gases with an amine-containing absorbent solution.
158379	22-10-1983	Do.	Process of producing liquid carbon containing iron.
158987	25-3-1983	Do.	Process of making steel by melting sponge iron in an electric arc furnace.
155030	14-8-1981	Midrex Corporation, Wilfriedstrasse 12, 8032, Zurich, Switzerland.	Method and apparatus for the direct reduction of iron in a shaft furnace using gas from coal.
160813	1-6-1983	Do.	Method of generating a reducing gas.
164916	16-8-1985	Midrex International B.V. Wilfriedstrasse 12, Zurich 8032, Switzerland.	Process for reducing metallic oxides to metalised material.
164494	12-8-1986	Do.	Method and apparatus for producing molten iron using coal.
151943	18-6-1980	Mitsui Petrochemical Industries Ltd., 2-5, 3-Chome Kasumigaseki, Chiyoda-ku, Tokyo, Japan.	Process for producing olefin polymers or copolymers.
168387	30-11-1987	Do.	Improvements in or relating to a process for the production of aromatic carboxylic acid.
163158	30-4-1984	Mitsui SRC Development Co. Ltd., No. 1-L, Mutomachi 2-chome, Nihonbashi, Chuo-ku, Tokyo, Japan.	Coal liquefaction process integrated with a coke production step.
156660	23-11-1981	Mitsui Toatsu Chemical Incorporated, No. 2-5, Kasumigaseki, 3-chome, Chiyoda-ku, Tokyo, Japan.	Process for producing rubber modified styrene resins.
156928	25-3-1982	Do.	An improved process for continuously preparing an organic isocyanate.

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158315	15-6-1982	Mitsui Toatsu Chemical Incorporated, Mo. 2-5, Kasumigasaki, 3-Chome Chiyoda-Ku, Tokyo, Japan.	A synergistic solvent composition for washing high molecular substances stuck on the interior of a production apparatus or molding apparatus.
161432	14-6-1984	Do.	Process for producing dianthraquinone-N,N-dihydrazine.
166958	14-6-1984	Do.	A process for preparing chloro indanthrone.
167327	14-6-1984	Do.	A process for preparing chlorination product of dianthraquinone-N, N-dihydrazine
154591	22-5-1980	Mobil Solar Energy Corporation at 16, Hickory Drive, Waltham, Massachusetts, USA.	Method of growing a crystalline body silicon from a silicon melt.
155993	8-6-1982	Monsanto Company 800, North Lindbergh, Boulevard, St. Louis, Missouri 63177, USA.	Improvements in a process for the product of cyclohexylamine.
156863	18-10-1982	Do.	A process for inhibiting premature vulcanization of a vulcanizable rubber composition.
164412	17-7-1985	Morton International 1 Lumbeth Palace Road, London SE1 7EU, U.K.	A process for preparing a liquid co-polymers.
155375	14-1-1982	Neste OY, Keilaniemi, 02150, Espoo 15, Finland.	Method of producing a kali soluble cellulose caramate.
153268	19-3-1983	Do.	A process for producing cellulose fibers optionally containing carbamate groups.
159236	1-1-1983	Do.	A process for producing cellulose carbamate.
152936	12-5-1981	Nippon Zeon Co. Ltd., of 6-1, 2-chome, Marunouchi, Chiyoda-ku, Tokyo, Japan.	Improved process for separating conjugated diolefin hydrocarbons from a hydrocarbon mixture.
153473	5-12-1980	Do.	Method for inhibiting polymerization of conjugated dienes in a process for separating conjugated dienes from a hydrocarbon mixture.
155678	9-12-1980	Do.	Process for extracting distillation.
157555	7-10-1982	Do.	A process for producing a reactor for preparing vinyl chloride polymer.
155377	27-6-1981	NYE Stava gartstall, A S, N-4109, Jorpeland Norway.	A process for the production of a sustentic wear resistant steel.
155377	25-9-1981	Oitokumari OY, SF-33500, Oitokumari, Finland.	A process for the recovery of lead, silver and gold from the iron-bearing residue of an electrolytic zinc process.
165784	11-3-1988	Do.	A method for manufacturing tubes, bars & strips of a non-ferrous metal.
157144	1-7-1983	Do.	Procedure for roasting seleniferous material.
159229	30-1-1984	Permelec Electrode Ltd., 1159, Ishikawa, Fujisawashi, Kanagawa, Ken, Japan.	Electrode for electrolysis and process for production thereof.
154694	15-8-1980	Pfizer Inc, 235, East 42nd Street, New York State of New York, USA.	Process for the preparation of L-aspartic acid-N-Triocanbarcyanhydride
167587	11-2-1987	Do.	Process for the preparation of 5-(3-Poly cycloalkoxy-4-alkoxy phenyl) Hexahydro 2-Pyrimidones.

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165429	14-8-1986	Pka Pyrolyse Kraftanlagen of D-7080 Aaslen, West Germany.	A process and plant for the recovery of utilisable gas from garbage by means of pyrolysis.
162664	8-2-1984	Povillart Roger Victor Avenue DeLa, Reforme 32 Brussels 1080, Belgium.	Process and installation for production of concentrated solution of ammonium nitrate.
155987	20-7-1981	RCA Corporation, of 30, Rockefeller plazas, New York-10020, USA.	Process for forming a tapered opening in a in a glass passivating coating on the surface of a semiconductor body.
165362	25-2-1986	Rheem Australia Ltd., 26, Level, Westpac, Plaza, 60 Margaret ST, Sydney New 2800, Australia.	Louvered fabric & method of forming same.
166662	9-7-1986	SAB NIFE AB, of Box, 515, S-26124, Landskrona, Sweden.	Valve for the addition of water to electro-chemical accumulator batteries.
168296	29-1-1987	SAB NIFE AB, of Box 515, S- Do.	An apparatus for charging a sealed secondary) electro-chemicals power source in combination with said power source.
167036	29-7-1986	SAFI, of 156 Avenue de, Matz-93230, Romainville, France.	A method for the manufacture of a polymer consolidated iron oxide based electrode for alkaline storage cells.
160868	10-7-1984	Saint-Gobain Vitrage 'Les Miroirs' 18, Avenue, d' Alsace, 92400, Courbevoie, France.	A method or for preparing plastics material of high optical quality and capable of absorption of energy.
166132	25-11-1985	Saint-Gobain Vitrage, 'Les Miroirs, Do.	A method of making a transparent article such as a pane of glass & or plastics material having a protective coating of a polyurethane layer & the coated transparent article thereof.
167197	15-4-1988	Sandor Ltd., CH-4002, Basle, Switzerland.	A process for preparing an insecticidal composition for the control of cockroach population.
157146	1-7-1983	Sandvik Asea Ltd., Bombay Poona Road, Poon, 411012, Maharashtra, India.	An improved process for the recovery of tungsten from tungsten bearing material and an apparatus therefor.
156896	7-6-1982	Santanu Roy, 13, Nanda Kumar Chowdhury Lane Calcutta-700006, India.	A process for the manufacture of bitumen polymeric elastomers.
161852	10-12-1984	Do.	An improved ignitable composition of matter and process for preparing the same.
154169	13-8-1981	Scott Bader Co. Ltd., Willaston, Wellingborough Northamptonshire NN9, 7 RL, England.	Anti-fouling coating compositions.
154530	1-4-1981	Shell Internationale Research Maatschappij B.V. Carel Van Bylandtlaan 30, The Hague, The Netherlands	A process for the synthesis of middle distillates of petroleum.
155483	14-10-1981	Do.	A process for preparation of oxygen-containing organic compounds and paraffinic hydrocarbons.
155501	3-11-1981	Do.	Removal of hydrogen sulphide and carbonyl sulfide from gaseous mixtures.
156408	14-6-1982	Do.	Process for the removal of Co ₂ and if present H ₂ S from a gas mixture.
156920	24-5-1982	Do.	Sulphur recovery process.
157514	14-6-1982	Do.	Process for the removal of H ₂ S and Co ₂ from a gas mixture.

158141	9-2-1983	Shell Internationale Research Maatschappij B.V. Caril Van Bylandtlaan 30, The Hague, The Netherlands.	A process for the separation of a liquid mixture by extraction.
158380	5-11-1983	Do.	Process for the preparation of a Fischer-Tropsch catalyst and use of this catalyst in the preparation of hydrocarbons.
158700	19-7-1983	Do.	Process for the preparation of hydrocarbons
159456	2-3-1983	Do.	Process for recovering a glycol from an electrolyte containing aqueous solution.
160759	13-3-1985	Do.	Process for preparing high activity free flowing olefin polymerization solid catalyst composition.
160912	25-4-1984	Do.	A process for the preparation of a catalyst suitable for the conversion of carbon monoxide and hydrogen into hydrocarbons.
161735	27-8-1984	Do.	Process for the preparation of hydrocarbon mixtures boiling bet 2150° C & 360° C.
162398	26-10-1984	Do.	Process for the preparation of hydrocarbon having atleast five carbon atoms per molecule from hydrocarbons having at most four carbon atoms per molecule.
162460	20-2-1985	Do.	Process for the polymerization of an α monoolefin.
163184	21-3-1985	Do.	Process for the preparation of polymers of conjugated dienes and optionally monoaralkenyl aromatic hydrocarbons.
163547	27-12-1984	Do.	A process for preparation of an activated catalyst.
163585	6-9-1984	Do.	A process for producing olefin a polymerization pre-catalyst.
164143	8-2-1985	Do.	Process for the preparation of hydrocarbons by catalytic reaction of carbon monoxide with hydrogen.
164153	8-2-1985	Do.	Process for the preparation of hydrocarbons.
164406	27-3-1985	Do.	A process for the preparation of high viscosity index lubricating oil.
164465	13-6-1985	Do.	Process for the preparation of hydrocarbons.
164493	27-3-1985	Do.	Process for the preparation of linear C_{10} — C_{20} olefins.
165116	3-7-1985	Do.	A process for the preparation of activated catalyst.
165407	16-7-1985	Do.	A process for producing synthesis gas of increased H ₂ /CO ratio.
165776	20-8-1985	Do.	Process for the preparation of hydrocarbons by catalytic reaction of carbon monoxide and hydrogen.
165809	18-12-1985	Do.	Process for the preparation of degraded modified C_3 - C_8 monoolefin homopolymer or copolymers.

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165968	8-10-1985	Shell International Research Maatschappij B.V.	Process for the production of synthesis gas with an increased H ₂ /Co-ratio from hydrocarbons.
166314	11-8-1986	Do.	Process for preparing novel copolymers of carbon monoxide, ethene & another olefinically unsaturated hydrocarbons.
166496	3-12-1985	Do.	Process for producing a substantially H ₂ S free gas from a sour gaseous stream such as naturally occurring gases, synthesis gases, process gases & fuel gases.
166642	15-3-1984	Do.	An oil composition containing a pour point depressant.
166813	27-12-1985	Do.	A process for the preparation of heavy liquid hydrocarbons boiling above 360° C by catalytic reduction of carbon monoxide with hydrogen.
167260	25-4-1984	Do.	A process for the preparation of hydrocarbons by catalytic reaction of carbon monoxide with hydrogen.
167283	20-6-1986	Do.	An improved gasoline composition for use in spark-ignition engines.
167590	6-9-1984	Do.	A process for the catalytic polymerization of an olefin.
167892	6-5-1986	Do.	Process for producing hydrocarbon-containing liquid from biomass.
168064	30-7-1986	Do.	Melt-spinnable for melt blowable copolymer composition and fibres whenever melt-spun or melt-blown therefrom.
169589	20-10-1987	Do.	Improved catalyst compositions for use in the production of ethylene oxide.
170625	22-5-1987	Do.	Process for the preparation of polymers.
164998	28-4-1986	SKW TROSTBERG AG., of Dr. Albert Fronk, street, 32, D-8223, Frostberg, F.R. Germany.	Process for the removal of caffeine from tea.
162099	26-6-1985	Société Nationale Des Poudres Et Explosifs of 12 Quai Henri-IV, 75181, Paris, Cedex, 04, France.	Process for the preparation of polymer, ethylenic unsaturations incorporating silylmetallocene.
166668	2-9-1986	Do.	A propellant composition.
167891	31-3-1986	Do.	Process for the manufacture of polymers which conduct electric current from polymers containing ethylenic unsaturations.
164758	11-7-1985	Specialised polyurethane Applications Pty, Ltd. of 5st. Thomas street, Waverlye, New South Wales 2024, Australia.	Borehole plug for a bore hole for placing explosives therein.

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152524	4-6-1980	Stamicarbon B V. P.O. Box 10-Geleen, The Netherlands.	Process for the preparation of filaments of high modulus and tensile strength.
154019	26-4-1980	Do.	Thermosetting powder based on a unsaturated polyester resin and process for preparing the same.
154475	22-7-1981	Do.	Process for the preparation of copolymers of ethylene with atleast one other 1-alkene.
154476	22-7-1981	Do.	Process for the preparation of copolymers of ethylene with at least one other 1-alkene.
154655	26-3-1981	Do.	Production of polyamide based objects and objects so produced.
154656	26-3-1981	Do.	Preparation of polytetramethylene adipamide.
154657	26-3-1981	Do.	Preparation of high moleculars polytetramethylene adipamide.
158001	28-6-1982	Do.	Process and device for the preparation of polymer melts which are substantially free of volatile components.
158211	3-3-1983	Do.	An improved process for preparing melamine.
158343	16-10-1982	Do.	Process for the production of polymer filaments having high tensile strength & modulus.
159598	22-7-1981	Do.	Process for the preparation of copolymers of ethylene with at least one other 1-alkene.
162564	14-11-1984	Do.	Process for preparing a purified rubber.
164794	1-5-1985	Do.	Process for the preparation of polytetramethylene adipamide.
169407	27-4-1987	Do.	Process of preparing virtually cadmium free calcium sulphate from cadmium containing phosphate rock.
169499	28-4-1987	Do.	An improved method for the removal of cadmium from acid phosphate containing aqueous medium.
169976	8-8-1985	Stein Industrie, of 19-21, avenue morane, Saulnier, 78140, velizy-villacoublay, France.	Ignition and combustion supporting burner for pulverized solid Fossil fuel.
165305	10-12-1985	Do.	Duct for conveying smoke filled with fine ash particles and having heat exchangers and protective device for protecting the heat exchangers.
167883	26-8-1986	Sumitomo Chemical Co. Ltd., No. 15 Kitahama, 5-chome, Higashi-ku, Osaka-shi, Osaka, Japan.	An improved process for preparing N-alkylamino phenols.
152953	20-6-1980	Sumitomo Metal Industries Ltd., 15-15- chome, Kitahama, Higashi-ku, Osaka, shi, Osaka, Japan.	Production of carbon steel and low-alloy steel with bottom blowing basic oxygen furnace.
165718	8-9-1987	Teikoku Hormone Mfg. Ltd., S-1, 2-chome, Akasaka, Minato-ku, Tokyo, Japan.	A process for producing pyridazinone derivative.
157506	28-12-1981	The British Petroleum Company Ltd., Britannic House, Moorlane, Londonrzy, 9 BV England.	A process for producing the crystalline aluminosilicates.
160258	7-5-1985	Do.	Process for the conversion of a mixed aliphatic hydrocarbon feedstock into liquid products,

1	2	3	4
162859	28-12-1981	The British Petroleum Company Ltd., Britannic House, Moorlane, Londonry, 9 BV, England.	A hydrocarbon conversion process comprising reacting hydrocarbon in the presence of a novel crystalline aluminosilicates catalysts,
161877	23-1-1985	The Goodyear Tire & Rubber company. of 1144, East Market Street, Akron, Ohio- 443160901, USA.	A process for the aqueous emulsion poly- merization of functionalised monomers.
166663	9-7-1986	The Goodyear Tyre & Rubber Company. U S A.	A process for making a self emulsifiable resin powder.
167972	2-7-1986	Do.	Siloxane containing network polymer.
168535	11-6-1987	Do.	A process for preparing a vulcanizing agent for natural and synthetic rubbers.
149126	21-2-1980	The Indian Space Research Organisation 'ISRO' Block Cauvery Bhavan, Dist: Office Road,, Bangalore-560009, Karnataka State, India.	An improved process for producing polyols.
149900	11-7-1980	Do.	A process for the production of polyhydro- xyester resins.
153437	18-9-1981	Do.	A process for production of fire retardant rigid polyurethane foam.
155231	5-9-1981	The Lubrizol Corporation, 29400 Lakeland Blvd, Wickliffe, Ohio-44092, U.S.A.	Improved crude oil composition.
155285	5-9-1981	Do.	Mixed alkylesters of interpolymers for use in Crude oils.
158265	5-4-1984	Do.	A process for preparing oil boron-containing compositions.
158598	8-9-1982	Do.	A process for preparing a composition for lubricating metal during working thereof.
161061	24-6-1983	Do.	Process for making a nitrogen containing ester of a carboxy containing interpolymers.
161461	8-8-1983	Do.	A liquid composition having hydrocarbyl substituted carboxylic acylating agent deri- vative containing combinations.
161606	16-2-1984	Do.	An additive composition having alkyl phenol and amino phenol for use in lubricating com- positens.
162409	5-4-1984	Do.	Improved lubricating composition having oxidation inhibition properties improved ex- treme pressure properties and decreased fuel consumption properties containing novel boron containing additive composition.
162587	29-1-1985	Do.	Process for preparing a water dispersible reac- tion product for use in lubricants cutting media.
162745	24-9-1984	Do.	A synergistic manganese & copper contain- ing composition.
163405	11-2-1985	Do.	A process for preparing nitrogen, phospho- rous containing agents useful as ashless anti- wear extreme pressure and/or lead carrying agents.

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163431	28-2-1983	The Lubrizol Corporation, 29400 Lakeland Blvd, Wickliffe, Ohio 44092, USA	Additive composition containing aminophenol combinations useful as lubricant & fuel additives.
163700	16-2-1984	Do.	An improved lubricating oil composition.
164211	28-1-1985	Do.	Improved process for making substituted carboxylic acid and derivative thereof.
164726	30-9-1985	Do.	Corrosion-inhibiting composition & oil compositions containing said corrosion inhibiting composition having mixture of alkali metal salt and nitrogen and boron containing composition.
164834	16-10-1985	Do.	A process of preparing a sulfurized composition useful as lubricant additives.
158994	9-12-1982	The Malaysian Rubber Producer's Research Association, Brickendobbury, Hertford SG-13, 8NL, England.	A method of making epoxidized cis 1, 4-Polyisoprene rubber.
164806	23-8-1985	The M.W. Kellogg Company, Three Greenway Plaza, Houston, Texas 77046, USA.	Process for producing ammonia in a synthesis.
165953	24-1-1986	Do.	A method for production of a combustion gas having low sulfur content from sulfur containing fuel for use in the manufacture of high pressure steam.
167010	21-7-1986	Do.	A process for steam cracking hydrocarbons.
162816	14-5-1985	SKW Trostberg Aktiengesellschaft, Dt. Albert. Frank Strasse 32, D-8223 Trostberg, West-Germany.	Fine granular desulfurizing agent for iron melts and process for desulfurizing pig-iron melts.
157607	2-3-1982	Toyo Engineering corporation, 2-5, Kasumigaseki, 3-chome, chiyoda-ku, Tokyo, Japan.	Process for preparation of polymeric substance or a liquid product containing polymeric substance.
165755	25-9-1985	Do.	Process for producing urea.
153218	8-4-1981	Unie van Kunststofabrieken B. V. P. O. Box 45, 3500 AA Utrecht, The Netherlands.	Process for making urea prills.
164392	7-3-1985	Do.	Process for the preparation of urea.
162193	10-1-1984	Unilever Plc, A. British Company of Unilever House, Blackfriars, London, EC4P 4BQ, England.	Process for preparing nickel based hydrogenation catalysts.
152790	27-3-1980	Union Carbide Corp. of 270, Park, Avenue, New York, State of New York, 10017, USA.	A process for preparing a hydroformylation medium and hydroformylation.
158241	23-3-1983	Do.	An improved process for continuous production of polymer in a fluidized bed reactor.
159791	17-6-1983	Do.	A method for refining crude butyraldehyde.
163427	28-12-1984	Do.	A process for the selective production of linear primary alcohols having 1 to 5 carbon atoms.
163428	28-12-1984	Do.	A process for producing C _n +1 alcohols.
166934	22-1-1986	Do.	A process for producing aldehydes from olefins by hydroformylation.
167041	23-8-1983	Do.	A method for producing polymers by polymerizing one or more organic monomers.

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154055	24-10-1980	Unisearch Ltd., 221-227 Anzac Parade, Kensington, New South Wales, Common Weath, of Australia.	A process for the production of construction materials.
154363	26-2-1982	Wahco International Inc. 100 West Tenth Street, Wilmington, Delaware 19801, U.S.A.	A sulfur trioxide conditioning system to produce a sulfur dioxide mixture and to produce therefrom a sulfur trioxide conditioning system.

COMMERCIAL WORKING OF PATENTED INVENTIONS ELBCT. ENGG. NO.

The following Patents in the field of Electrical Engineering Industry are not being commercially worked in India as admitted by Patentees in the statements filed by them under section 145(2) of the Patents Act, 1970 in respect of calendar year 1993, generally on account of want of request for licences to work the patented invention persons who are interested to work the said patents commercially may contact the Patentees for the grant of a license for the purpose.

Patent No.	Date of Patent	Name & Address of Patentee	Title of the invention
1	2	3	4
167001	19-2-1986	Adees Singh C/o Mrs. Mohinder Kaur, BXX-1095 Street, No. 6, Gurdev Nagar, Ludhiana, Pin-141001, India.	A magnetic attraction electric motor with a conductorless rotor.
161036	28-7-1983	Adrian March, Ltd., 7 Argyle Close, Whitehall, Bordon, Hampshire GU 35, 9PU England.	Position sensor.
163032	15-9-1986	Ahmedabad Textile Industries, of P. O. Poly. technic, Ahmedabad-380015, India.	An electronic device for determining and monitoring the position of a moving magnetic object within a confined space defined by Non-magnetic material.
153086	19-9-1980	Alcan International Ltd., 1188, Sherbrooke Street West, Montreal, Quebec, Canada-H3A 3GS.	An electric primary cell.
154069	9-4-1980	Alsthom Atlantique 38 Avenue Kleber, 75784, Paris, Cedex 16, France.	A high tension circuit breaker.
154700	22-9-1980	Do.	A current transformer for a high tension installation.
155010	18-11-1980	Do.	A device for separably assembling first and second enclosures of an electric cutout apparatus containing gas of high dielectric strength.
156219	16-6-1981	Do.	An electric shunt inductance winding for an electric power transport line.
157063	5-10-1981	Do.	A current transformer.
157993	23-3-1982	Do.	A supply circuit for electronic apparatus of a high electric potential.
158477	3-11-1982	Do.	Circuit breaker.
158317	1-10-1982	Aluminium Pechiny, 28 Rue de Bonnel, 69003, Lyon, France.	A device for the precise adjustment of the anode plane of an electrolysis cell for the production of aluminium.
153807	10-3-1980	Asea Aktiebolaget of S-72813, Vasteras, Sweden	Convertor for high voltage direct current power transmission.
161499	21-9-1984	Asea Aktiebolaget of S-72183, Vasteras, Sweden	Semiconductor valve for high voltage applications.

1	2	3	4
168319	10-3-1987	Benke Instrument & Electro AG, Rutreg 9, CR-4133 Pratteln.	A process analyzer system
158264	26-5-1982	Bolmet Inc, Louisa Viens Drive, Dayville, State of Connecticut 06241, USA.	Metallized electrode steep and electric capacitor having the same.
165006	15-7-1986	Brown, Boveri & Cie AG, Kallstadter Strasse 1, D-6800, Munnheim-Katertal, West Germany.	Centralized control receiver for power distribution.
165686	29-7-1987	B. V. Optische Industries Van Mierevallan, 2612, Xe, Delft, The Netherlands.	9, Method of manufacturing an image detection device for radiographic purposes.
166462	9-12-1986	Do.	Piezoelectric attenuation tongue system for slit radiography equipment.
168333	19-6-1987	Do.	A device for slit radiography.
168569	9-12-1986	Do.	A slit radiography equipment.
159609	7-1-1982	CEM ' Compagnie, Electro Mechanique, of 12 rue, portalis, F-75008, Paris, France.	Sliding field inductor with oriented flux for agitation rollers in the continuous casting of slabs.
158244	28-7-1982	Ceraver, 12 Rue de la Baume, 75008 Paris, France.	A ca, for an electrical insulator.
168791	18-4-1985	Do.	Improved insulator of the PIN or POST type.
168554	28-10-1986	Common Wealth of Industrial Research Scientific Organisation, Limestone, Avenue Compbell, Australia Capital territory, Commonwealth of Australia.	Composite electrode materials for use in solid electrolyte device and solid electrolyte device including said electrode.
164033	7-10-1985	Compagnie Industrielle, De Tubes Et, Lamps, Electriques Citel, 8 Avenue Jean-Jaures, 92132, Issy-Les, Moulinaux, France.	Discharger for the protection of coaxial conducting cables against overvoltages.
164524	28-10-1985	Compagnie Industrielle, De Tubes Et, Lamps, De Tubes Et, Lampes, Electriques Cited, 8, Avenue Jean-Jaures, 92130 Issy-Les, Moulinaux, France.	Arrester device for protecting a circuit against overvoltage.
155184	27-3-1982	Council of Scientific & Industrial Research, Rafi Marg, New Delhi-110001, India.	An improved electrolytic cell suitable for the cathodic reduction of nitro compounds to amino compounds.
155863	29-7-1982	Do.	An electrochemical process for the preparation of benzaldehyde for benzyl alcohol.
156218	10-9-1982	Do.	Process for the electrochemical preparation of 2-furoic acid from fur furaldehyde.
157440	15-2-1983	Do.	An electrochemical process for the preparation of n-butyric acid from N-butanol using nickel Oxy hydroxide anode.
157439	17-2-1983	Do.	An improved process for the electro deposition of lead dioxide on titanium substrates.
157507	31-3-1983	Do.	Process for the electrochemical preparation of alkali metal chromate from chromium salts.
158256	23-4-1983	Do.	An improved process for the preparation of anhydrous magnesium chloride for use as cell feed for the electrolytic production of magnesium metal.

1	2	3	4
158816	2-2-1983	Council of Scientific and Industrial Research Rafi Moog New Delhi-11001 India	Digital set point proportional controller device for use with precision unit operations in the chemical industry.
159408	4-8-1984	Do.	An inter-locking ultrasonic testing.
159410	7-8-1984	Do.	An improved process for the manufacture of silicon varactor diodes from epitaxial wafer.
160011	6-6-1984	Do.	A modified starter for a single phase induction motor.
161055	12-6-1985	Do.	Improved process for electrochemical synthesis of polypyrrole.
161135	10-4-1984	Do.	A digital sine and cosine function generator for use in electronic instruments which required discrete frequencies.
161980	1-7-1985	DoM	An improved process for the preparation of manganese dioxide titanium anodes for use in the production of electrolytic manganese dioxide.
162241	5-12-1985	Do.	A method of making a sensor for mutation sensitive electrode and voltametric applications and the sensor so made.
162352	8-11-1985	Do.	An improved process for the preparation of ruthenised titanium electrodes.
162733	13-9-1985	Do.	Improvement in or relating to Hexadecimal keyboard.
163102	21-2-1986	Do.	Improvements in or relating to frequency Agile Magnetron
163185	30-8-1985	Do.	A direct reading four probe resistivity meter.
163219	17-2-1986	Do.	An improved process for electrolytic production of lead.
166148	5-6-1987	Do.	Improved process for making silver sensing ion selective coated film.
166188	23-3-1987	Do.	Microprocess or based automated control unit for monitoring multi electrochemical protection system.
166254	27-9-1987	Do.	Method of making chemically modified Iodide ion selective electrode.
167670	10-3-1988	Do.	A theft alarm system.
167859	21-1-1988	Do.	Electronic digital maximum demand indicator.
167953	22-2-1988	Do.	Timer actuated switch for industrial dust collectors as well as for the control of sequential cyclic switching of loads.
155846	4-12-1981	Degussa AG. 9, Weisstraßenstrasse, Frankfurt (Main), F.R.G.	Material for electrocal contacts.
167229	30-5-1988	Degussa AG, Frankfurt/Main, 6450, Hanau 1, Postfach 1345, Federal Republic of Germany.	Electrical contacts.

1	2	3	4
153792	12-2-1980	Delle-Alsthom, of 130-Rue Leon Blum, 69611, Villeurbanne, France.	Circuit braker with resistance switch in device
155208	18-2-1980	DR. Beck & Co. AG, of 2000 Hambarg 28, Grossmannsstrasse, 105, Federal Republic of Germany	Process for the production of winding wires having two insulting layers of different materials
159046	14-4-1983	Dresser U. K. Ltd. 197, Knightsbridge, London, SW 7, IRJ England.	Circuit for suplying additional voltage pylsos to electrostatic precipitators
160529	2-7-1984	Do.	Electro-precipitator discharge electrodes
168246	27-5-1988	Ducoti Energia Spa. Via Marco Emilio, Lepido 182 401323 Bologna, Italy,	Wound capacitor impedance device.
161224	22-2-1984	Energy conversion Devices, of 1675, West Maple Rd., Troy, Midugam 48084, USA	The piezoelectric device exhibiting decreased stress.
163310	31-1-1984.	Do.	Multilayered electronic memory arrays for use in data storage apparatus
165593	23-9-1985	Festo KG, Ruitor Str. 82, 7300, Esslingen, Germany.	A circuit assembly for use in electrical pneumatic controllers
163373	15-4-1985	General Electric Company, of 1, River Road, Schenectady, State of New York-12305 USA	Continuous metal tube casting method apparatus & product.
168230	28-12-1987	Goldstan Co. Ltd., Lucky Goldstar Twin, Towers, 20 Yoido Dong, Yongdungpo-Gu, Seoul 150, South Korea.	Flyback transformer
168496	4-11-1987	Do.	A switch-in-type stabilising power supply circuit.
152290	11-9-1980	Hermann Schwabe, Warenstrasse 25, D-7067, Wrbach, West Germany.	Process for the production of E-shaped core laminations of an impedance coil or of a transformer especially for glow-discharge lamps.
152963	25-9-1981	Hitachi Ltd., Add. As in 152962.	Insulated electrical coil.
156110	31-5-1982	Hitachi, Ltd, 5-1, Marunouchi, 1-chomo, Chiyoda-Ku, Tokyo, Japan.	Improvement in or relation to a SF6 gas insulating electrical circuit breaker.
156767	12-10-1982	Do.	D. C. Motor for a vehicle.
160109	17-8-1983	Do.	Device for verifying the insulation to ground of a disconnecting switch when braking a charging current.
165747	4-6-1986	Do.	A multiple computersystem having plurality of computers interconnected via transmission path.
166382	11-8-1986	Hollandse Signaalapparaten B. V. Zuidelijke, Havenweg 40, 7550, GD, Hengelo, The Netherlands.	Pulse radar apparatus.
168837	27-11-1987	Do.	A communication system.
160332	22-2-1984	Hughes Aircraft Co., 200 North Sepulveda El, Seg, undo, California, 90245, USA.	A dual path optical sensor system.
162453	21-1-1985	Do.	Non volatil semi conductor memory unit.
162858	18-4-1985	Do.	Method for encapsulating and impregnating article such as electrical components.
164413	24-7-1985	Do.	Optical path line of sight stabilization apparatus for viewing a target.

1	2	3	4
159462	7-5-1983	Imperial Chemical Industries Plc. Imperial Chemical House, Mill Bank, London, SW1P, 3JF, England.	An electrolytic Cell, containing gasket, having projections and/or recesses.
166003	16-12-1985	Do.	An electrolytic cell.
154430	30-10-1981	Jeumont-Schneider 31, 32 Quai, De, Dion Bouton, 92811, Puteaux Cedex, France.	A control circuit for a direct current motor during traction or braking.
160826	16-9-1983	Do.	Central circuit of a synchronous motor with two induced windings.
161178	11-4-1985	Kett. Electric laboratory, 8-1, Minami-Magone-1, chome, Ota-ku, Tokyo, Japan.	Electric moisture meter.
158465	3-11-1982	La Telemecanique Electrique, 33 bis Avenue, du marechal-Joffre, 92000, Nanterre, France.	A mechanically controlled switch with automatic opening for a protective limiting device.
158466	3-11-1982	Do.	A contractor apparatus.
158467	3-11-1982	Do.	Contractor apparatus.
158813	14-1-1983	Do.	A device for resiliently holding a contact bridge in combination with said contact bridge.
159760	24-11-1982	La Telemecanique Electrique, 33 bis, Avenue du, Marechal Joffre, 92900, Nanterre, France	A contractor having self protection means against the effect of the forces of repulsion between the contacts.
159475	1-3-1983	Manchester R & D Partnership, 27-31, Emerson Drive, Pepper, Pike, Ohio, 44124, USA.	Liquid crystal display device for use with electro-optic apparatus
159544	22-09-1982	Metallgesellschaft AG, 16, Frankfurt AM, Rengert, West Germany.	A membrane electrolysis cell.
157978	22-07-1983	Do.	Vertically extending plate electrode and an assembly including the same for use in gas-forming electrolyzers.
156670	03-08-1982	Metallurgical & Engineering Consultants (India) Ltd. Daranada, Ranchr-834002, Bihar, India.	A fuse failure & no volt monitoring & protection device, for a 3-phase electrical apparatus.
160262	09-01-1984	Mobil Solar Energy, Corporation of 16, Hickory Drive, Waltham, Massachusetts, 02154, USA.	Method of fabricating solid state semiconductor devices.
158745	25-3-1983	Motor Industries Co. Ltd, Hosur, Adugodi, Bangalore-560030, Indi.	Improvements in or relating to high voltage spark plugs
158640	16-4-1983	Outokumpu OY, Toolonkatu 4, SF.00100. Helsinki-I, Finland.	An electric furnace intended for smelting or heating
158321	26-8-1983	Permelec Electrode Ltd., 1159, Ishikawa, Fujisawashi, Kanagawa-ken, Japan	Electrolytic electrodes having high durability & process for production of same
157972	16-9-1982	Raymond Emmett, McIntyre, 31, Southern Cross Drive, Cronin, island, Surfers Paradise, Queensland, Australia 4217	Improvements in or relating to electrical connection devices.
154802	1-10-1981	Rasemount Incorporated, 12001, West 78 th Street, Eden Prairie, Minnesota-55344, USA.	Capacitive pressure transducer with isolated sensing diaphragm.
156305	22-1-1982	Do.	Circuit for measuring the reactance of an AC reactance.
160165	26-3-1984	SAFT, 156 Avenue de Metz, 93230, Romainville, France.	A method of manufacturing an electrode for an electrochemical cell and as electrode manufactured by the method.

1	2	3	4
162556	6-9-1984	Saint-Gobain Vitrage, "Les Miroirs", 18 Avenue, Alsace, 92400, Courbevoie, France	Electric fusion furnace for a vitrifiable charge.
151947	23-5-1980	Siemens AG. of Berlin, & Munich, West Germany.	High-voltage electrical switch.
153349	14-5-1981	Do.	A control device for use in controlling two way rectifier.
153850	24-2-1981	Do.	A device for transmission of signals from an apparatus nearby railway track of railway vehicles.
154045	20-7-1981	Do.	A device for use in bridging brief mains failures in a voltage intermediate circuit static frequency changer.
154101	4-2-1981	Do.	A turbine set for generating and supplying electricity at a constant frequency to a network.
155470	23-12-1981	Do.	A medium voltage electrical load switching device.
158826	26-7-1983	Do.	A control system for regulating the electrical power circuit of an electrical generator.
161399	17-5-1984	Do.	A terminal arrangement for a switch-gear or a combination of switch gears.
162325	19-11-1984	Stein, Industrie, of 19-21, Avenue. Morane, Saulnier, 78140 Velizy Villacoublay, France.	Apparatus for continuously monitoring this removal of clinker from coal-fired boilers in thermal power stations.
157089	19-8-1981	Stock Equipment Company, 731, Hannu Building Cleveland Ohio, 44115, USA.	Product to frequency converter.
166223	9-9-1986	The General Electric Company Ltd., of 1 Stunhop, Gate, London, W1A, 1EH, England.	Differential relay to protect electrical feeder.
159180	18-1-1983	The Marconi Company Ltd., The Grove, Warren Lane, Stenmore, Middlesex, England.	A frequency hopping radio communication system.
155303	20-1-1981	Thomson-Csf, of 173 B1, Hayssonard, 75008, Paris, France	A diversity Radio transmission system.
151999	22-5-1981	Union Carbide India, 270 Park Avenue, New York, State of New York 10017, USA.	Metacap for exposed top of carbon electrode of a dry cell and an improved dry cell incorporating same.
157812	19-5-1983	Do.	Improvements in or relating to stock batteries.
15939	21-4-1986	Union Carbide India Ltd., 1, Middleton Street, Calcutta-700071, India	Improved zinc cans for dry batteries method of manufacturing the same and dry batteries made of such improved cans.
166735	24-4-1986	Vacum interrupters Ltd., of 68, Ballards Lane, Finchley, London, N3, 2BU, England.	A contact for an electric switch.
166316	18-9-1986	Videocolor, of 7, Boulevard Romain Rolland, 92128, Montrouge, France.	Cathode-welding mechanism for electron gun.
166317	6-10-1986	Do.	A device for correcting the deflection effect due to a variation of the focusing voltage in trichromatic cathode ray tube with in line cathodes.
166440	1-10-1986	Do.	An electron gun for a cathode ray tube & method of manufacturing a hearing filament of said electron gun.

1	2	3	4
166455	28-5-1986	Videocolor of 7, Boulevard Romain Rolland, 92128, Montrouge, France.	Method and device for illuminating the face plate of a color television tube for formation of the screen.
166688	1-10-1986	Do.	Machine for depositing a product on a plane horizontal surface of an object.
166689	1-10-1986	Do.	Device for a automatic simultaneous measurement of the respective distances between cathodes & the second grid of a trichromatic cathodes tube gun.
167139	1-10-1986	Do.	A device for manufacture of bases for vacuum tubes.
163515	10-3-1986	Voest Alpine Ag. A-4020, Linz, Muldenstrabe 5, Austria.	A control device for controlling constant current in resistance welding machines.
158593	22-4-1982	Westinghouse Electric Corporation, of Westinghouse Bldg., Gate away Centre, Pittsburg, Pennsylvania-15222, USA.	Low DC voltage high current switch assembly.
168619	14-5-1987	W & T. Avery Ltd., of Smethwick, Warly. West Midlands, B 66, 21P, England.	A weighing systems.

COMMERCIAL WORKING OF PATENTED INVENTIONS. MECHANICAL ENGG. LIST NO.1

The following patents in the field of MECHANICAL ENGINEERING INDSTRY are not being commercially worked in India as admitted by Patentees in the statements filed by them under Section 146(2) of the Patents Act, 1970, in respect of Calendar Year 1993, generally on account of want of request for Licences to work the Patented invention, persons who are interested to work the said Patents commercially may contact the Patentees for the grant of a licence for the purpose.

Patent No.	Date of Patent	Name & Address of Patentee	Title of the Invention
1	2	3	4
162969	3-10-1985	AE BISHOP 19, Buffalo Road, Gladesville, New South Wales, Commonwealth of Australia.	A Die head for a roll imprinting machine.
150458	13-3-1981	Ahmedabad Textile Industry of P.O. Polytechnic, Ahmedabad-380013, India.	Beat up mechanism for looms particularly used in wave line weaving machine.
154709	1-4-1981	Do.	Shed forming device for waveline weaving looms.
155756	17-8-1981	Do.	Wefr replenishing mechanism for travelling wave whedding looms.
157585	12-9-1983	Do.	Improvements in or relating to a bobbin for ring frames used in spinning mills.
155750	2-3-1982	Airoil-Flaregas Ltd., Horton Road, West Drayton, Middlesex, UB7-8B, England.	Improvements in or relating to fuel burner assemblies.
162101	2-6-1983	AJO-Stahlbau GmbH, & Co. KG, Postfach 1.24, D-5905, Freudenberg, West Germany.	Apparatus for the draining of granular material particularly granulated blast furnace slag.
160710	5-5-1984	Alcan International Ltd., 1188, Sher Brooke Street, West Montreal Quebec, Canada.	Structures fabricated from Aluminium Components & process involved in making these structures.
157504	23-12-1981	Alsthom-Atlantique, 38 Avenue kleber, 75784, Paris cedex 26, France.	A diffuser adapted to bleed through the wall.
160410	11-5-1981	Do.	An automatic sheet metal cutting machine.
163712	16-7-1985	Do.	Compressed gas circuit breaker.
168305	4-2-1987	Do.	A device for ventilating at least one of a fluid radiator unit and a starting and braking rheostat unit located proximate to the roof of an electrically powered unit.

1	2	3	4
159909	24-8-1983	Aluminum Company of America, Alcoa Bldg. Pittsburgh, State of Pennsylvania, USA.	Method and a apparatus for production of atomized metal.
161981	20-10-1983	Aluminium Pechney 22 Rue de Bonnel, 69003, Lyon, France.	Closed apparatus providing potential fluidisation for horizontally conveying powder materials.
162004	1-5-1984	Do.	Closed apparatus with potential fluidization for horizontally conveying powder materials.
166066	15-6-1987	Do.	Pipes having orientable nipples for furnaces for firing caraneous flocks.
154794	4-8-1981	American Standard INC, State of Delaware, 40 West, 40th Street, New York- 10018, USA.	Lacking device for reducing a draft gear to a compressed state prior to installing or removing a draft gear from railway cars.
158859	13-5-1983	American Flange & Manufacturing Co. Inc. 1100, West Bancke Street, Linden, New Jersey-07306, USA.	Container closure.
160102	2-3-1984	Do.	A closure assembly for dispensing liquid products from cans and pails.
162857	8-4-1985	American Flange & Manufacturing Co. Inc. 1100, West Bancke Street, Linden, New Jersey-07036, USA.	Tamper-evident closure assembly.
168090	11-8-1987	Antonio Sola, Lot 31, Badgery's Creek Road, Bringelly New South Wales, Australia.	An apparatus for introducing a vaporised chemical agent into a compressed air supply system.
157839	17-12-1982	Arthur Ernest Bishop 17, Burton Street, Masman, New South Wales, Australia.	Rack and pinion steering gear.
158109	4-6-1983	Do.	Method and apparatus for making steering rack bars.
164302	7-8-1985	Do.	Hydraulic control valve for a power assisted steering system for a vehicle.
164346	19-3-1986	Do.	Core for a rotary valve for a power steering system.
165049	3-10-1987	Do.	Apparatus for imprinting of edges of grooves in valve cores for Rotary valves for use in power steering gear.
158289	3-4-1983	Ashoka Leyland Ltd., 19, Rajaji Salaj, Madras-600001, Tamil Nadu, India.	An improved marine screw propeller.
156348	22-10-1981	Avulunga Pty, Ltd., 1, Elouera Street, Bray Park, Murwillumbah, New South Wales, Australia.	Improved laryngoscope blade.
162760	15-1-1985	Axel Johnson Engineering of Hamngatan, 60, S-14900, Nynashamn, Sweden.	A plate pack for a lamella separator.
163337	1-5-1985	Do.	An apparatus for separating suspended or emulsified matters in liquids.
167360	22-7-1987	Aziende chimiche, Riunite Angelini, Francesco, A.C.R.A.F. S'A. of viale Amelia 70, 00181, Roma, Italy.	Method of treating contact lenses.

1	2	3	4
158394	31-10-1983	Bajaj Auto Ltd., Akurdi, Pune, 411035, Maharashtra, India.	A locking arrangement for locking components such as spare wheel oil, tank, fuse Box, Petrol tank, Battery and tool box of a two wheeler, motor vehicle.
159084	7-5-1984	Do.	Improvement in or relating to the clutch of a motor vehicle Particularly in two wheeled motor vehicles and three wheeled motor vehicles.
167522	29-12-1987	Do.	A flasher unit for flasher direction indicators for motor vehicles.
168782	15-5-1989	Do.	Improved lamp circuit for motor scooters, motor cycles and three wheeler motor vehicles.
159538	5-5-1983	Bar-Ilan University Ramat Gan, Israel.	An apparatus for separating selected biological cells for other such cells.
164547	19-9-1985	Barry L. Butler, 13525, Pandifino Drive, Del Mar, State of California, USA.	A solar energy collector.
154250	6-3-1981	Beheermaatschappij, H.D. Groeneveld, B.V. No. 542, Ringdijk, 2987, Vz. Bolnes, The Netherlands.	A fire proof wall.
167336	13-5-1986	Bera Anstalt, Aculenstrasse 38, FL-9490, Vaduz, Furstentum Liechtenstein.	Apparatus for the production of carbon black.
167337	13-5-1986	Do.	An installation for the production of carbon black.
167338	13-5-1986	Do.	Apparatus for the production of carbon black.
167314	14-7-1986	Do.	Process for the manufacture of low-ash electrically conductive carbon black and an apparatus for making the same.
158883	30-8-1982	Bergwerksverband GmbH, Franz-Fischer-Weg, 61, 4300, Essen 13, West Germany.	A device for dosing fuels particularly caking fuels in fluidized bed reactor.
161153	21-5-1984	Do.	Process and device for cleaning of gas mixtures.
161558	13-10-1983	Bernard Zimmern, Vantage Point Condominium, 6 New Street, East Norwalk, CT 06855, USA.	An economiser device for refrigerating machine, a heat pump or the like.
163398	8-3-1985	BICC Public Ltd., Company.	An improved optical fibre element & method of manufacturing same.
149236	16-6-1980	Brakes India Ltd., Padi, Madras-600050, Tamil Nadu, India.	An improved cam brake.
149241	5-4-1980	Do.	A pedal mechanism for a hydraulic brake System.
153829	25-10-1982	Do.	Scam brake.
156335	19-10-1982	Do.	A dust cover for wheel cylinders of vehicle hydraulic brakes.
155879	10-4-1981	British Aerospace Plc. 100, Pall Mall, London SW1Y, SHR, England.	Magneto-optical phase-modulating devices
155880	10-4-1981	Do.	Ring Laser Gyroscopes.
156512	4-6-1982	Do.	A system for retrieving and/or launching aircraft.

1	2	3	4
157859	10-3-1983	British Steel Corpn. 9 Albert Embankment, London SE17 SN, England.	Apparatus for the shaping of materials such as metals as well as catable non-metallic material, such as glass.
155423	7-7-1981	Brown & Williamson Tobacco Corporation 1600, West Hill Street, Louisville, Kentucky 40232 USA.	Apparatus for making grooves in tobacco smoke filters
155856	3-2-1983	Do.	Cigarette filter.
156401	23-2-1982	Do.	Cigarette filter.
157633	2-2-1983	Do.	Improvements relating to tobacco smoke filters.
169511	3-5-1988	B.V. Optische Industries DE OUDE DELFT", of Van Miereveltlaan 9, 2612 XE, DELFT The Netherlands.	Device for slit radiography with image equalization.
169731	29-3-1988	B.V. Optische Industries, Netherlands.	Apparatus for slit radiography equipped for taking equalized x-ray photographs.
170032	5-9-1988	B.V. Optische Industries.	Equipment for slit radiography.
166611	17-6-1986	B.W.N. Vortoil Rights, Pty, Ltd., 4 park Drive, Dandemong, 3175, Victoria, Australia.	Cyclone separator.
167566	26-8-1987	Do.	Cyclone separator.
162488	31-7-1985	Canziani Francesco, Via Contrado Ferrino 21, San Macario (Varese), Italy.	Plant for sorting items with self driven carriages.
167989	19-10-1987	Caroma Industries Ltd., 76 Magill Road, Norwood, South Australia, 5067, Australia.	Duel flush cistern mechanism.
265923	1-3-1989	Central Mine Planning & Design Institute Ltd., an Indian Com'any incorporated under the Companies Act 1956, of Gondwana Place, Kanke Road, Ranchi-834008, India.	Improved beehive oven chimney.
167334	29-4-1986	Charbonnages De France of 9, Avenue, Percier 75008, Paris, France.	Turbulent flow burner for fluid fuel combustion.
164340	24-9-1986	Chin-wag Tsai, 5th Floor, 87 Chong Gong Road, Sec-3, Taipex, Taiwan, Rep of China.	Fire escape.
166557	20-5-1982	Clayton Dewandre Co. Ltd., P.O. Box 9, Titanic Works, Lincoln, LNS 730, U.K.	An improved reciprocating exhaustor driven by diesel engine.
168292	28-5-1985	Compair Broomwade Ltd., P.O. Box 7, Broomwade, Works, High Whycombe, Buckinghamshire, HP-1355F, England.	Screw rotor machines.
160204	25-1-1984	Continenta Disc Corporation 4103, West Riverside, Riverside, State of Missouri, USA.	A reverse buckling rupture disc.
163076	10-9-1984	Contra Shear Holding of 31 Ruskivi, Street Parnell, Auckland, New Zealand.	Rotary screen.
160893	7-5-1984	Contraves AG, Scheffhauserstrasse 580, 8052, Zurich, Switzerland.	An optica system for a periscope-like sighting device or locating, tracking and ranging a target.
162153	22-12-1983	Copeland Corporation combell Road, Sidney, Ohio-45365, USA.	Scroll type machine.
162154	13-1-1984	Do.	An orbiting scroll compressor.
162861	12-1-1984	Do.	A motor compressor.

1	2	3	4
155883	14-4-1981	Council of Scientific & Industrial Research (CSIR), Rafi Marg, New Delhi-110001, India.	A closed circuit hydraulic prop for the support of mine roofs with an proved relief valve mechanism.
159316	31-3-1983	Do.	An apparatus for precision low temperature vapour deposition of thin film coatings on water substrates.
159375	16-6-1983	Do.	A compensated nitrosonic timer device to determine the wave velocity in solid/liquid under ground strata.
160164	11-2-1985	Do.	A process for the manufacture of insulating brick from rice husk.
161545	30-4-1985	Do.	Hydraulic bolt tensioning device.
163819	27-5-1986	Do.	Portable multigas sampler for continuous sampling of air in the atmosphere.
164773	24-12-1985	Do.	An improved two-stroke engine.
166168	5-11-1986	Do.	Multifuel domestic chulha or efficient burning of different types of solid fuels.
167940	7-9-1987	Do.	Multifunctional digging tool to function as spade-cum-hoe.
167105	11-8-1987	Dallre Industries Ltd., 8650, Boulevard De La Rive, Sud Levis Lauzon, Quebec G. 6V 7 M5, Canada.	An improved window construction.
159737	15-7-1983	Daiichi Engineering Co. of 9171 Koda-cho, Dawasyimh-cpo, Hashima Gun, Gifu-Ken, 483, Japan.	Squeeze pump.
164736	22-1-1987	Dansk Industry Syndikat, A, Herlev Hove-ogad, 15-17 Herlev 2730, Denmark.	A core setter for use in placing one or more cores in the mould impression.
165691	1-1-1987	Do.	A moulding system for making mould parts.
169092	18-11-1986	Darya Paye Jetty Co. Ltd., Ellens Cottage, Wolton Farm, Bekesbourne, Canterbury, Kent, Great Britain.	A device for constructing a rigid structure upon the bottom of a body of water.
166745	22-12-1986	David Godfrey Williams, 6, Quayside, Little Neston, South Wirral L640TB, England.	A valve component for a friction less guided valve.
157608	17-3-1982	Davy McKee (Stockton) Ltd., Stockton-on-Tees, England, JS 18 3 Rr. I	A device for controlling heat transfer to the charge bed in a rotory kiln.
164368	20-6-1986	Degussa AG, Frankfurt/Main, 6450, Hanau 1, Postfach 1345, Fed. Rep. of Germany.	Process and apparatus for producing carbon black.
165739	17-7-1986	Do.	Apparatus and process for producing carbon black.
168832	26-11-1986	Do.	An atomizing nozzle and a process for forming an atomizate by the use of said nozzle.
162670	10-12-1985	De Smet Chemfood, Engg. Pty. Appeejay Chambers, 5 Wallace St. Bombay-1, India.	Apparatus for treating e.g. deodorizing oil and similar material.
164913	25-6-1985	Deutsch Voest-Alpine Industrieanlagenbau, GmbH.	Apparatus for cooling hot producer gas containing tacky particles which lose their tackiness on cooling.

1	2	3	4
165848	1-7-1986	Deutsche Voost Alpine Industrieanlagenbau GmbH.	An apparatus for producing cooling gas
169834	29-3-1989	Didier Werke AG, Lessingstr. 16-18, D-6200 Wiesbaden, West Germany.	Devices for converting solar energy into process heat.
152170	30-5-1981	Dr. C. ORRO & COMP. of Christstrasse 9, 4630, Bochum, West Germany.	Closing and opening device for use in coke ovens.
152680	2-6-1980	Do.	A method of renewing the brickwork of coke ovens.
152766	31-10-1980	Do.	Coke car for coke ovens.
153268	2-6-1980	Do.	A coke oven battery.
153277	4-12-1980	Do.	Door extractor for the closures of horizontal coke ovens.
153338	2-6-1980	Do.	Extraction of gases evolved in the charging of coke ovens.
153339	24-11-1980	Do.	Coke oven battery adapted to be regeneratively heated by lean gas or rich gas at choice.
153570	25-2-1980	Do.	Nozzle provided with several outlet apertures for coke ovens.
155623	12-2-1981	Do.	Apparatus for dry cooling of hot raw coke.
156936	24-12-1982	Do.	Heating system for the regenerative heating of a coke oven battery having twin heating flues.
158142	15-2-1983	Do.	A temperature measuring means for coke oven chambers walls.
158200	31-12-1983	Dr. C. Otto. & Comp. GmbH, Postfach 101850, D-4630, Bochum 1, West Germany.	Coke oven door.
158919	19-12-1983	Do.	Device for levelling the coal charged into the coking chamber of a coke oven.
166694	13-3-1986	Do.	Method and plant for manufacturing fuel from thick tar separated from coke oven gas collected in thick tar separators during cooling of the said gas.
155608	1-10-1981	Dresser U.K. Ltd., 197, Knights bridge, London SW 7, RJ, England.	A method and apparatus for treating a polluted gas with a liquid.
159094	3-9-1983	Dr. Hans-George, Bochm, of Kellegrundway, 13, 6242, Kronberg/Taunus, West Germany.	Steam pressure cooker.
167788	14-10-1987	Du Pont Canada Inc., Box 22 Streetsville, Mississauga, Ontario, Canada 15M 2H3, Canada.	Method and apparatus for instolling a pipe liner of synthetic polymer in a pipe section.
150295	30-11-1979	Eastern Carbons, Sach Milan, Telephone Exchange Rod., Dhanbad 826001, Bihar, India.	Improved beehive coke oven.
120303	30-11-1979	Do.	A battery of improved beehive coke ovens.
150489	21-1-1980	Do.	Self generated continuous carbonising furnace.
158494	7-4-1982	Do.	Equipment for continuous devolatilisation of coal.

1	2	3	4
163528	5-7-1985	EDUARD BALTENSPER GER, of Eicy-strasse, 176, Bruttlen, Switzerland.	A couplable and uncouplable load carrying thrust unit
165244	20-4-1987	E.I. Du Pont De, Nemours & Co. Wilmin-ton, Delaware, USA.	Continuous filament polyester yarns.
165842	26-5-1986	E.I. Du Pont De, Nemours & Co., USA.	A laminar, molded, hollow article & process for making same.
168002	22-4-1987	Do.	Improvements in or relating to a melt spinning process & apparatus therefor.
169691	12-8-1988	El. Barador Holdings, Pty Ltd., 30 Palings Court, Nerang, Queensland, 4211, Australia.	An improved building structure.
160666	9-8-1983	Emhart Industries Inc, of P.O. Box 2730, Hartford, Connecticut-106101, USA.	A moulding device for use in a cyclically operating glassware forming machine.
161975	27-11-1984	Do.	Moulding apparatus for use in a cyclically operating glassware forming machine.
167866	17-9-1987	EMITEC Gesellschaft Fur, Emission, Technologie, mbH, Hauptareasse 150, 5204, Loh-mar 1, West Germany.	Process for producing an assembled cam-shaft.
169579	19-5-1988	Do.	A hollow drive shaft assembly having hollow shaft and drive elements.
170648	3-11-1988	Do.	Method of assembling crankshafts, & crank-shafts, thereby produced.
170888	17-2-1989	Do.	Grarwheel.
170936	6-1-1989	Do.	Assembled shaft especially camshaft, crank-shaft or Driveshaft.
159035	2-6-1983	Energy Foide Internat, 36, Avenue Krieg, 1208, Geneve, Switzerland.	Alighting protector assembly.
159671	2-2-1984	Erema Engineering, Recycling Maschinen, Anlagen Ges mb. bH. of Freindort, Unterte-ldstr, 3, A-4052, Austelden, Austria.	A device for processing thermo plastic synthetic plastics material.
157721	20-6-1983	Etablissements Morel, Morel Atel, Fabieris 28170, Chatouneufen Thymerais, France.	A sleeve for protecting cable splices.
163710	15-5-1986	Do.	A protecting sleeve & a method for protec-ting cable splices.
164994	12-3-1986	Do.	A plastic sleeve or protecting splices of electric cables or telephone cables & a method of making said sleeve.
168244	29-7-1988	Do.	Cartridge or injecting a mixture of two liquid constituents.
160911	1-10-1984	Fabcon Incorporated 965, Mission Street, Suite, 730, San Francisco, California 94103, USA.	Aparatus or flocculating & clarifying a solid liquid slurry.
166238	20-11-1985	Festo KG. Ruiter Strasse 82, 7300, Essodin-gen, Federal Republic of Germany.	A fluid operated oscillating piston motor.
158296	23-4-1982	Festo-Maschinenfabrik Gottlieb Stoll, Ulmer, strasse 48, 7300, Esslingen, FRG.	A spool valve.
162692	28-8-1984	BIRMA CARL STILL, GMBH & CO. 4350, Reckinghausen, Postfach 101851, FRG.	Process & apparatus for the production of briquetting material for hot briquetting.
164901	10-2-1986	Flavourtech Pty Ltd., C/o. Higgns Ploss & Co. Banner Avenue, Griffith, NSW 2680, Australia.	Counter Current contracting device.

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153696	31-1-1981	Francois Toure, Chateau de logne, 57310, Guenange, France.	Heat exchanger for cooling the wall and the refractory of a blast furnace.
156109	6-5-1982	Do.	Improvements to hot-blast nozzles, Particularly for blast furnace.
161236	9-10-1984	Frankwesley Moffett, 944, Auen Creek Road, Rochester, New York, 14618, USA.	Vertically oriented garden structures.
166430	29-11-1986	Franz Welz Internationale, A-5021, Salzburg, Ernest-Thun-Strabe, 8, Austria.	Transportable refrigeratin container.
169434	11-2-1987	Do.	A refrigeration tank for forming a refrigerated atmosphere for refrigeration of goods.
167101	16-6-1987	Fried Krupp GmbH, MIT, Beschränkter, Haftung, a, of Altondorfer Strosse, 103, D-4300, Essen, 1, West Germany.	Cutting tool.
167861	16-2-1987	Do.	Discharge unit in containers such as cylindrical silos or bunkers, especially or sluggish and/or caking particulate materials.
168652	30-3-1988	Do.	A tool changing device.
168758	29-2-1999	Do.	Tool coupling.
169496	11-4-1988	Do.	An apparatus or receiving a tool carrier.
165352	10-3-1986	Fritz Studer AG, 3602, Thun, Switzerland.	A process or manufacturing concrete polymer machine parts & machine parts made of concrete polymer.
162741	5-2-1984	Fujikura Ltd., of No. 5-1, Kiba, 1-chome, Kohtoh-ku, Tokho, Japan.	Self bonding enameled wire & hermetic compressor motor using the same.
168944	23-10-1987	Fujikura Ltd., Do.	An insert part or sealing cable junctions.
169079	23-10-1987	Do.	An assembly or sealing cable junctions
166427	5-11-1986	Galbraith Engineering Pty, Ltd., Moutreal Road, West Midland, Weston Australia, 6956, Australia.	Reciprocatory machines.
160714	11-5-1984	GEA Luftkuhlgesellschaft, Happel, GmbH, & Co., No. 43-47, Königsallee, 4630, Bochum, FRG.	Apparatus for heat exchange.
161049	22-5-1984	GLA GmbH, Königsallee 43-47, 4630, Bochum, FRG.	Heat exchanger.
161338	18-8-1984	GEA Luftkuhlgesellschaft, Happel GmbH & Co., 43-47, Königsallee, 4630, Bochum, Sed. Rep. of Germany.	Energy displacement apparatus for a desulphurization plant.
161340	12-2-1985	GEA Luftkuhlgesellschaft Happel, GmbH & Co., 43-47, Königsallee, 4360, Bochum, F.R. OF Germany.	Apparatus for drawing on transverse ribs.
161478	29-5-1984	Do.	Air-cooled surface condenser.
161728	12-2-1985	Do.	Apparatus for drawing on transverse ribs.
162123	14-5-1984	Do.	Apparatus for heat exchange.
162655	11-7-1984	Do.	Air-cooled surface condenser.
162666	25-6-1984	Do.	Heat exchanger with heat exchanger pipes ribbed over their entire length and method of preparing heat exchanger.
162791	14-5-1984	Do.	Apparatus for indirect heat exchange.
163995	17-5-1985	Do.	Device for transferring the cooling water of a wet cooling tower or a wet/dry cooling tower to a recycling system for water distribution.

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153134	22-10-1980	General Electric Company, 1, Riber Rd., Schenectady 5, New York, USA.	Improved method of making diamond compacts for rock drilling.
153537	27-12-1980	Do.	Continuous metal casting method, apparatus and products.
162623	3-11-1983	Do.	Continuous metal casting method apparatus and product.
164073	12-4-1985	Do.	Electromagnetic levitation casting apparatus having improved levitation coil assembly.
159278	7-12-1982	General Signal Corporation, High Ridge park, Stamford, Connecticut, USA.	Mixing apparatus for mixing a liquid or a liquid suspension medium.
159908	30-7-1983	Do.	A rotary valve.
158363	18-5-1983	Georg Fischer Aktiengesellschaft, CH-8201, Seyartyaussen, Switzerland.	Acasting device.
164690	18-12-1985	Do.	Wall member for converter chamber.
169927	10-12-1987	Do.	A process for producing casting molds by selectively compressing granular material in a molding box.
161421	12-2-1984	Glaverbel, Chaussee de la Hulpe 166, B-110, Bruxelles, Belgium.	A process for providing modified silica refractory structures.
166533	6-1-1987	Hans Spelten, Frankstr 21, D-4054 Nettetal 2, Fed. Rep of Germany.	Structural Bar.
154469	1-10-1980	Harlach AG, Garterstrasse 7, 8902, Urdorf 2H, Switzerland.	Apparatus for coating a flat printing screen on one or both sides with or photosensitive emulsion.
159484	8-3-1984	Harsco Corporation, 350, Poplar church Road, Cam' Hill, Pennsylvania, 77011, USA.	Bridge launcher.
167353	13-3-1987	Haugesund Mek, Verksted A, N-5500 Haugesund, Norway.	A method for constructing hugmodules and a module constructed by said method.
160208	16-4-1984	Heinz Kaiser AG, Glattalstrasse, 837, 8153, Rumlang, Switzerland.	Boring tool.
160461	8-5-1984	Do.	Tool part in combination with a connecting shaft of a machine tool
157316	23-10-1982	Hendrikus Van Berk, H. Govertkade 3, 2628, EA Delft, the Netherlands.	A pparatus for suctioning submerged bottom material.
167429	27-5-1988	Hindustan Lever Ltd., 165, -166, Backbay, Reclamation, Bombay-400020, Maharashtra, India.	Nonconveying mixer formixing materials.
154492	27-4-1982	Hitachi Ltd., 5-1, Marunouchi, 1-chome, Chiyoda-ku, Tokyo, Japan.	Slurry drip-feeding apparatus.
160856	9-3-1984	Hoerbiger Ventilwerke, Akt. 23, Brannhubergasse, Vienna, A-1110, Austria.	Improvement in a lifting device for the valve plates of compressor, valves.
164599	17-11-1986	Do.	A nonreturn valve.
167375	14-4-1987	Do	A compressor valve for varying operating conditions of the compressor.

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158979	15-1-1983	Honda Giken Kogyo, Kabushiki Kaisha, No. 27-8, 6, chome, Jingumae, Shibuya-ku, Tokyo, Japan	Gang head for a replacable gang head machine tool.
166394	15-10-1985	Do.	A vacuum mold for vacuum forming a heated plastic sheet with an imprinted grain pattern of the surface of the sheet.
166951	26-12-1985	Do.	A method of manufacturing an air permeable electrocast shell.
161497	7-7-1984	Hughes Aircraft Co. 200, North Sepulveda, Boulevard, El Segundo California 90245, USA.	A two axis optical interial references appatus for providing a stabilized optical reference.
162997	8-4-1985	Do.	Thermally actuated safety device for a pre- ssure vessel or presserized gas generator, such as rovet motor case.
166001	7-6-1985	Hughes Aircraft Co. 200, Hughes Terrace, P.O. Box, 45066, Lasangles, California, 90045, 0066, USA.	A get array chip.
166221	2-4-1986	Do	Device for automatically tracking a target.
165958	7-1-1986	Imperial Chemical Industries Plc., of Imperial Chemical House, Mill Bank, London, SW1P, 3J, England.	Apparatus for effecting direct contact, bet- ween, a gas & liquid.
161018	24-12-1982	Ingeneursbureau AP, Van Den Berg B.V. Ijzerweg, 4, Heerenveen, Netherland's.	A device for performing soil inspection.
160384	28-1-1984	Interlego AG, Sihlbruggstrasse 3, 6240, Baar, Switzerland.	Toy building blocks.
160385	30-1-1984	Do.	Toy building blocks.
167683	12-2-1987	Do.	Toy track for toy vehicles.
167958	14-7-1987	Do.	Toy cog railway.
165377	1-8-1985	Inter-Steel Technology, Inc. 3041, Shallowood Lane, Malthess, North, Curulina 28108, USA.	Method for continuous steel making in electric furnace.
166886	1-8-1985	Interseel, Do.	Apparatus for the continuous refining of steel
158377	19-3-1984	Isover Saint Gobain, 18, Avenue D'Alsace, 92400, Courbevoic, France.	Improvements to internal combustion buriars.
154925	14-10-1980	Jean Guigan, of Gruc, Jean Mermoz, 75008, Paris, France.	Simultaneous analysis apparatus.
165075	3-12-1985	Do.	Apparatus for automatically performing medical analysis of samples.
159720	21-9-1983	Johnson & Johnson, of 2155, Boulevard, Pic, IX, Montreal Quebec, HIV, 2E4, Canada.	Process for manufacturing calendered pear moss board having enhanced obsorbency.
163964	21-6-1985	Kanegafuchi Kagaku Kogyo Kabushiki Kaisha, 2-4, Nakanoshima, 2-chome, Kita-ku, Oosakashi, Japan	Glow-discharge decomposition apparatus.
168374	6-5-1987	Kautar Oy, T-Linja 38A, 3/800, Toijala, Firland.	Method for producing concrete or mortar and an apparatus for carrying out the method.
156677	1-1-1983	Kayserberg S.A. 54, Avenue Hoche, Paris, 75008, France.	Non-woven material for medical com- poreesses
154226	16-11-1981	Kennedy van Saun, Corpn. Danville, Pennsylvania, 17821, USA.	Method and apparatus for preheating parti- culate materials and in particular, for pre- heating and precalcining limestone.

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163335	12-2-1986	KM-Kabeletal Aktiengesell, Klosterstrasse 29, 4500, Osnabuck, West Germany.	Continuous casting of ingots.
163575	20-4-1985	Do.	Process for producing protective layer resistant to wear & tear on the shape giving surfaces of a continuous casting ingot mould and an ingot mould so produced.
161730	7-8-1985	Komori Corporation, 11-1, Azumabashi, 3-chome, Sumioa Ku, Tokyo, Japan.	Intaglio printing machine.
152370	17-1-1981	KRW Energy Systems Inc. Three Greenway Plaza, Houston, Texas 77046, USA	A fluidized bed combustion apparatus.
156313	26-11-1982	Do.	A fluidized apparatus.
161610	14-3-1985	Do.	Fluid bed gasifier for carbonaceous material
164349	28-11-1986	Kuiken N.V. Randweg 31, 8304, AS Emmeloord, the Netherlands.	Face gear transmission for axes intersecting or crossing each other.
159619	7-6-1983	L'Air Liquide Societe, Anonyme Pour L'Etude, Et. L'Exploitation, Des Procedes Georges, Claude, 75, Quaid orsay-75007, Paris, France.	Improved thermally insulated container
160210	7-5-1984	Do	Hydrogen concentrating process and apparatus
160331	17-2-1984	Do.	Apparatus in particular a reactor for purifying fluid by absorption
160739	25-6-1984	Do.	Process and device for vapourizing a liquid by heat exchange with a second fluid and their application in an air distillation installation.
161131	31-1-1984	Do.	Apparatus for cooling a fluid from ambient temperature to a low temperature
163794	15-3-1985	Lanxide Technology, Company, Tralee Industrial Park, Newark De 19714, 6077, USA.	Article of commerce made out of ceramic materials.
164506	19-7-1985	Lanxide Corporation, Tralee Industrial Park, Newark, Delaware, 19711, USA.	Method for producing self supporting ceramic body.
163968	9-7-1986	Les Entreprises Tritlonl, 10775, Racette, Avonue, Montreal North, Quebec, Canada H1G, 5H5.	Improvements in or relating to a seal suitable for locking containers e.g. boxes, trucks, zippered containers and the like.
165422	16-7-1986	LES Entreprises Tritton, Ltce, 10,725 Racette, Avenue, Montreal North Quebec, Canada H1, G5H5.	Shackle type seal.
161344	6-12-1983	Limitorque Corporation, P O. Box, 11318, SH4, Woodall Road, Lynchburg, Virginia, USA.	A valve operator with an improved de-clutch mechanism.
161218	16-8-1984	Lesinger Ag, Konizstrasse 74, 3008, Bern, Canton of Berne, Switzerland.	Anchoring arrangement for freely oscillating steel tension elements or a dynamically stressed structural component.
151352	21-5 1980	Lucas Industries, Public Ltd., Mo., Great King, street, Birmingham, 19, England.	A brake having an automatic adjuster.
154071	22-12-1981	do.	Friction pad assemble for use in a disc brake.
155604	4-12-1981	Do.	Automatic adjuster for a shoe drum brake and shoe drum brake incorporating the same

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161356	5-6-1984	Lucas Industries Public Ltd. Co., Great King, street Birmingham, 19, England.	Improvement in vehicle disc brakes of the liquid cooled type.
162334	4-9-1984	Do.	Actuator assemblies for vehicle brakes.
163140	29-11-1984	Do.	Internal shoe drum brake
168180	24-9-1987	Magnetics Research International Corp. 50, South Second Street, Fairfield Iowa 52556, USA.	Full flux reversal variable reluctance motor generator machine.
153930	2-5-1980	M.A.N. Gutehoffnungshutte GmbH, Bahnhofstrasse 66K, 4200, Oberhausen 11, F.R.G.	Rotary machines
165635	6-9-1985	Mastaro Sato 191, Bancho, Oosara Ikenoba, Miki-cho, Kita-gun, Kagawa-Ken, Japan.	Brake system for cycles.
164841	16-10-1985	Mechanical Plastics Corporation, Castleton Street, Pleasantville, State of New York, USA.	One piece plastic fastener.
166104	1-4-1986	Do.	Expensible plastic fastener for securement with in an opening.
153712	26-11-1981	Metallgesellschaft A.G., of 16, Frankfurt, A.M. Renterweg, West Germany.	Rotary hearth furnace plant.
161128	1-6-1983	Midrex International B.V. Wilfriedstrasse 12, Zurich 8032, Switzerland.	Apparatus for generating a reducing iron oxide.
152885	2-4-1981	Mineral Deposits Ltd., 81, Ashmore Rd., Southport, Queensland, Australia.	A spiral separator.
153222	2-4-1981	Mineral Deposits Ltd., New South Wales, Common Wealth, of Australia.	A spiral separator.
155472	6-1-1982	Mineral Deposits Ltd., 81, Ashmore Road, Southport, Queensland, Australia.	Improvements in spiral separators.
157198	1-10-1982	Mineral Deposits Ltd., 81 Ashmore Road, South Port, Queensland, Australia.	Improvements in or relating to separators.
158723	17-2-1984	Mitsubishi Belting Ltd., 1-21, Hamazoe-dori 4 Chome, Nagata-ku, Kobe-shi, Hyogo, Japan.	Power transmitting V. Belt.
159224	17-2-1984	Do.	Power transmitting V. Belt.
159226	18-2-1984	Do.	Method for manufacturing elongated cogged V. Belt.
159640	18-2-1984	Do.	Toothed rubber belt
158117	21-7-1982	Mobil Solar Energy, Corporation, 16, Hickory Drive, Waltham, Massachusetts, USA.	Apparatus for growing tubular crystalline bodies.
160563	17-4-1984	Do.	Apparatus and method of growing hollow tubular bodies of crystalline material.
157158	15-11-1982	Molins Plc., 2 Evelyn Street, London SE 8, 5 DH, England.	Feeding particulate material especially tobacco.
161448	3-7-1984	Monsanto Company, 800 North Lindbergh, Boulevard, St. Louis, Missouri 63166, USA.	An apparatus for the recovery of heat from a sulphuric acid plant.
166679	10-1-1986	Monsanto Company, 800 North Lindbergh, Boulevard, St. Louis, Missouri 63166, USA.	A process for making an apparel yarn suitable for drawtexturing and an apparel Yarn thereof.
166892	8-11-1985	Do.	An apparatus for use in the recovery of the heat or absorption in a process for the manufacture, of sulfuric acid.

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154291	21-5-1980	(Mrs.) Prabha G. Tasgaonkar, 506, Shakuntala, Apartment, 59, Nehru Place, New Delhi-110009.	A cooking utensil.
154378	21-5-1980	Mrs. Prabha G. Do.	A baking utensil.
163370	23-3-1985	M. V. Sreenivasu Roju, F-11 & F-14, Manish Complex, 10, Corvent Road, Bangalore-25.	A device to guide &/or channelize, hot water on the surface of water reservoir in a pre-determined route (S) length (S) for cooling the same.
155415	14-7-1981	Nederlandse Centrale Organisatie Voor Toegepast-Natuurwetenschappelijk Onderzoek, Juliana Van Stolberglaan 148, The Hague, Netherlands.	An apparatus for controlling the air/fuel ratio in a fuel supply system for combustion engines.
154609	24-11-1980	Neotronics Ltd., Parsonage Road, Takeley, Bishopstropford, Hertfordshire, England.	Apparatus for measuring the degree of efficiency of combustion appliances.
154126	19-12-1981	Nitto Boseki Co. Ltd., No. 1, Azo Higashi, Gonome, Fukushima-shi Fukushima, Japan.	Glass fiber forming unit.
160599	9-4-1984	Do.	A method of producing fiber forming bushing.
160914	29-5-1984	Do.	A centrifugal force system glass fiber producing apparatus.
169507	24-11-1986	Nodest Ver, A/s. of Linnesstrandar, Box 507, N-3412, Lierstranda, Norway.	An apparatus for mixing gravel & bitume.
163195	11-1-1985	Ostermann Metallwerke Co., Bhuner Leg, 2-4, D-24 Koln 30 D-5000, Germany.	Driving arrangement for water craft.
164669	24-3-1988	Otto India Pvt. Ltd., 9 Camac Street, Calcutta-700011, West Bengal State, India.	A flexible door for coke ovens.
164732	19-1-1987	Otto India, Do.	A novel system for achieving alignment & interlocking between pusher car & coke guide car on pusher & coke sides respectively of an oven chamber of a coke oven.
165705	14-8-1986	Do.	Coke quenching car.
164289	29-4-1985	Owens-Illinois Closure Inc, One Sea Gate, Toledo, Ohio 43666, USA.	Tamper indicating child-resistant package.
164391	5-3-1985	Do.	Blow molding apparatus.
165236	3-10-1985	Do.	Multilayer containers with improved stress crack properties.
165481	29-7-1985	Do.	Multilayer plastic structure.
165876	23-8-1985	Do.	A closure for a finish of a container having a neck ring.
166573	6-2-1986	Do.	A screw cap for closing the open upper finish of a container.
166646	18-11-1985	Do.	Coextruded multilayer sheet & touch sleeve label made therefrom.
166617	18-11-1985	Do.	Coextruded multilayer sheet adapted for use as a solvent seal sleeve label on containers.

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166648	18-11-1985	Owners-Illinois Plastic Products Inc., USA.	Coextruded multilayer sheet & sleeve lable for bottles.
166863	20-2-1986	Do.	Apparatus a method of manufacturing thermoplastic labelled containers by heat shrinking a wraparound thermoplastic lable on a container.
166891	5-11-1985	Owens, Do.	A tamper resistant child resistant snap-on closure for use with a container.
166953	23-1-1986	Do.	Apparatus for forming hollow plastic article.
167339	15-5-1986	Do.	Closure with a snap type hinge cap.
167399	25-6-1985	Do	A container.
152211	11-4-1980	Palitex Project Company GmbH, GmbH, Weeserweg, 60, 4150 Krefeld 1, Federal Republic of Germany.	A thread brake.
155371	13-5-1982	Do.	Two for one twisting spindle
156693	20-1-1982	Do.	Pneumatically threadable yarn brake and a two-for one twisting spindle equipped therewith.
162053	26-7-1984	Do.	Two for one twisting spindle.
163367	15-2-1985	Do.	A yarn wetting device.
164694	28-2-1986	Paques B.V. T-de Boerstraat 11, 8561, EL, BALK the Netherlands.	Device for the anaerobic purification of waste water.
164788	24-7-1985	Do.	Anaerobic purification equipment for waste water.
157067	9-3-1981	Paul Legueu, 85 Avenue De Mazy, 44330, Pornichet, France.	Light armoured reconnaissance & vehicle.
157320	9-11-1982	Do.	A cross-country automobile vehicle of the kind suitable for towing and for hoisting loads.
166714	26-11-1987	Peter Jansson. 33 Penkivill Street, Willoughby, New South Wales 2068, Australia.	A wind turbine.
157272	30-1-1984	Pressure cookers & Appliances, Ltd., F-101, Kaker Towers, Cuffe Parade, P.O. Box 16083, Bombay-400035.	A filtration apparatus.
157275	25-3-1983	Do.	Pressure cookers.
157276	30-1-1984	Do.	A filtration apparatus.
157626	25-3-1982	Do.	Pressure responsive safety valve for pressure cookers for domestic use.
160226	13-8-1984	Prof. Dr. Ing. Dieter Wurz., Haid and New Str. 8, 7500, Karlsruhe, F.R.G.	A mist eliminator for eliminating droplets from a faseous flow.
165549	24-7-1985	Research & Developme it Pty. Ltd., Suit 703, A.M.P. Building 50, Miller Street, North Sydney, N.S.W. 2060 Australia.	Improvements in centrifugal grinding mills.
155189	16-2-1981	Robert Cassou Rue elmenecan 61300, L, Aigle, France.	Apparatus for transferring animal reproduction elements especially animal embryos & semen.
163573	7-1-1985	Roberto Perlini, 37047, San Bonifacio, Locara, Italy.	Oleodynamic control device for steering the pivotable wheels of vehicles provided with straight travelling stablizer.

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159072	23-7-1983	Rolf Peddinghaus of Deterbergerstrasse 25, D-5858, Ennepetal, West Germany.	Parallel vice with main bodyguide rail, spindle & an arrangement for avoiding end pressures.
157957	26-11-1982	Rosemount Inc. 12001, West 78th Street, Eden, Prairie, Minnesota 55344, USA.	An apparatus for conveying fluid pressures for use with differential pressure transducer.
165267	23-7-1985	Do.	A batch fabricated thin film platinum resistance thermometer.
155939	17-6-1981	Royal Ordnance Plc. Griffin House, 5th Strand, London WQ2N, 5BB, England.	Track link for a tracked vehicles.
156151	27-12-1979	Do.	Improvements in or relating to breech mechanisms.
156541	3-7-1981	Do.	Firearms with rechargeable magazine.
156542	6-7-1981	Do.	Training round of ammunition in incorporating a consumables bullet for use in an automatic firearm.
156780	3-7-1981	Do.	Firearm with rotary magazines.
157162	3-7-1981	Do.	A firearm.
164202	13-6-1985	Do.	Riot control weapon.
162118	30-4-1985	Rudy Melvin Bowerw 11385 Nayshon Court, Cypress, California 90530, U.S.A.	Rod coupling for oil well sucker rods & the like.
164462	15-4-1985	Saint Gobain Vitrage, 'Les Miroirs', 18 Avenue, D'Alsace, 92400, Courbevoie, France.	A method & apparatus of making a transparent article with high optical quality protective coating & the article thereof.
165266	12-7-1985	Do.	Method & device of making a glass ribbon in a float furnace.
165971	12-7-1985	Do.	A device for mounting on the outside of a float furnace for manufacture of a glass ribbon.
162971	19-11-1984	Sarden Corporation 20, Kotobuki-cho Isesakishi, Gunma-ken, Japan.	A scroll type fluid displacement apparatus.
162983	22-11-1984	Do.	Scroll type fluid displacement apparatus with anti wear scroll device.
163010	19-11-1984	Do.	Scroll type fluid compressor.
163148	14-11-1984	Do.	Scroll type compressor with displacement adjusting mechanism.
163156	26-12-1984	Do.	A refrigerant compressor with mechanism for adjusting the capacity thereof.
163342	14-11-1984	Do.	Scroll type fluid displacement apparatus including a pair of scrolls.
164141	21-11-1984	Do.	Scroll type fluid displacement apparatus with varying scroll thickness.
164245	18-2-1985	Do.	Wobble plate type compressor with a capacity adjusting mechanism.
159430	7-12-1983	Sandanu Roy, 13, Nanda Kr. Ch. Lane, Calcutta-700006, West Bengal, India.	A novel apparatus for effective utilisation of a solar power.
161348	27-6-1984	Do.	Improvements relating to a windmachine for generating power from wind.
160643	9-8-1984	Santrade Limited Alpenquai 12, 6002, Switzerland.	Apparatus for the production of granulates.

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154057	11-2-1981	S.a. PRB Soci�te, Anonyme, Avenue de Braqueville, 12, 1150, Bruxelles, Belgium.	Propellant for base-bleed gas generators & process for manufacturing it.
154058	11-2-1980	Do.	Process for the manufacture of insulated propellant sets for base-bleed generators.
160115	19-11-1983	Satake Engineering Co. Ltd., 19-10, Ueno-1-chome, Taito-ku, Tokyo, Japan.	Grain handling system.
154438	4-7-1981	Scale soci�te De, Conditionnements En. Aluminium, 47, rue de Monceau. 75008, Paris, France.	A method of manufacturing metallic strips by continuous casting between rolls.
159261	23-2-1983	Schubert & Salzer. Maschienenfabric, Aktiengesellschaft, of Friedrich-robert-strasse, 84, 8070, Ingolstedt, West Germany.	Suction duct for textile machines.
166927	1-4-1986	Do.	A flat for carcing machines.
155372	26-3-1981	Sealed Power Technologies Limited, 100, Terrace, Plaza, Muskegon, Michigan 49443, USA.	Piston Ring.
159642	22-4-1981	Tecumseh Products Company, 100, East Patten Street, Tecumseh, Michigan 49206, USA.	Hermetic motor compressor.
160497	22-4-1981	Do.	Hermetic motor compressor.
155455	16-9-1981	Shell Internationale Research Maatschappij B.V., Carol Van Bylandtlaan, 30, The Hague, The Netherlands	Apparatus for separating liquid gas mixture.
157357	26-11-1982	Do.	A vertical column for separating liquid from a mixture with gas.
160595	5-4-1984	Do.	Apparatus for separating mixtures of liquid & gas.
167045	24-2-1986	Do.	An apparatus for eliminating the influence of drill string magnetisation on an azimuth measurement in a borehole.
167389	26-6-1986	Do.	Apparatus suitable for solids fluid separation.
167574	27-10-1986	Do.	Apparatus & process for solids fluid separation.
168015	28-8-1986	Do.	An improved apparatus & process for producing synthesis gas by catalytic reforming of hydrocarbon with steam.
163435	19-6-1984	Shiroki Corporation 2 Kirohara, cho, Fujisawashi, Kanagawa Ken 252, Japan.	Spontaneous conversion type solar heat collector.
159171	22-12-1983	Siemens AG. of Berlin & Munich, Wittelsbacher 2, D- 8000, Munchen, F.R. of Germany.	Pressurisable container having a safety device for releasing excess pressure from a container.
160801	21-4-1982	Do.	Liquid ring vacuum pump for fluid media.
159039	9-6-1983	Single Buoy Moorings Inc., 5, Route de Fribourg, P.O. Box 124, CH-1723, Marly, Switzerland.	Mooring system for maintaining a buoyancy body in position in relation to another body.
160693	9-6-1983	Do.	Device for maintaining a buoyant body in position in relation to another body.
152826	9-12-1980	Sintokogio Ltd., Toyota Bldg., 7-23 Meieki. 4-chome, Nakamura-ku, Nagoya, Japan.	Molding machine.

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164494	29-3-1985	Smith Meter Inc. 1602, Wagner Avenue, Erie, Pennsylvania 16514, USA.	Compact flow prover for periodically calibrating a continuous flowmeter.
153625	21-1-1980	Societe D' Etudes D., Machines, Ttermignes, SEMT, of 2, quai de seine 93202, Saint - Denis, France.	Cam control device for a four-stroke internal combustion engine.
154379	23-5-1980	Do.	Improvements in or relating to a fuel-injection pump of internal combustion engine.
156683	24-8-1982	Societe Devente, De L'Aluminium Pechiney, 23 bis, rue Bulzac 75008, Paris, France.	A device for the treatment of a stream of aluminium or magnesium-based liquid metal or alloy during its passage.
157868	12-4-1982	Societe, D' EM, S.E.M.T. 93202, France.	A fuel injection pump for an internal combustion.
158573	31-8-1982	Do.	Improvements in or relating to internal combustion engine.
165190	6-12-1985	Do.	Piston for use in an internal combustion engine.
162523	11-12-1984	Societe Nationale Des Poudres Et, Explosifs 12, Quai Henri IV, 75181, Paris Cedex 04, France.	Device for inhibiting the end faces of a block of propellant.
166093	5-2-1986	Do.	Apparatus for the manufacture of one or more blocks of propellant by casting.
167024	27-5-1986	Do.	Pyrotechnic igniter for shells.
158058	17-6-1982	Sony Corporation, at 7-35, Kitashinagawa, 6-chome, Shinagawa-ku, Tokyo, Japan.	Video tape cassette.
162162	12-9-1984	SPBP Tea Industries Pvt. Ltd., of 20 British Indian Street, 2nd floor, Calcutta, 700069, West Bengal, India.	A pilfer-proof thermoplastic container.
162514	26-6-1984	SPX Corporation, 103 Terrace Plaza, Muskegon, Michigan 49443, U.S.A.	Solenoid valve.
162593	26-6-1984	Do.	Solenoid valve.
162905	17-6-1985	Do.	Solenoid valve.
154059	30-3-1981	Stamcarbon B.V. of P.O. Box 10, Galleen, The Netherlands.	Device for the spraying of a liquid by means of a gas.
161829	11-11-1984	Stain Industrie, of 19, 21, Avenue Morane, Saulnier, 78140, Velizy, Villacoublay, France.	Heat exchange having vertical tubes forming parallel loops & interlocking means for interlocking adjacent vertical Tubes.
162294	14-11-1984	Do.	A device for suspending a bundle of horizontal tubes in a vertical plane.
162680	29-5-1985	Do.	A heat exchanger panel.
163679	29-5-1985	Do.	A centrifuging mixture separator.
168873	3-3-1987	Do.	A device for fixing a perforated sheet against the perforated tube plate of a heat exchanger.
156881	19-8-1981	Stock Equipment Company 731, Hanna Building, Cleveland, Ohio 44115, USA.	Reversing ratchet drive for door closer for coal feeders.

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161196	9-8-1984	Stork Brabant B.V. 43 a, WIM DE Korvestraat, 5831, An Boxmeer, The Netherlands.	Foam generator.
154924	19-10-1981	Surendra Kumar Jain 101/2, Hospital Road, Jaipur, 1302001, India.	An animal drawn vehicle.
154742	22-4-1981	Tecumseh Products Co. 100 East Patterson Street, Tecumseh, Michigan 49286, U.S.A.	Improved compressor housing.
154939	22-4-1981	Do.	Hermetic compressor.
161790	18-3-1985	The Goodyear Tire & Rubber, Company, 1144, East Market Street, Akron, Ohio 44316-0001, USA.	Pneumatic tire.
157375	18-11-1981	The Titan Manufacturing Co. Pty. Ltd., Woodstock, Street, Mayfield, New South Wales 2304, Australia.	A nut in incorporating resistance means.
157441	19-11-1981	The Titan Manufacturing Co. Pty. Ltd., Australia.	A threaded deformed bar.
153733	20-1-1981	The Western States Machine Company. 1798, Fairgroove Avenue, Hamilton, Ohio 45012, USA.	Improvement in or relating to a continuous centrifugal machine.
159322	13-6-1983	Do.	Mechanism for latching an axially displaceable rotary part to a concentric rotary part.
151823	30-1-1980	Tox-Dabel-Work R.W. Heckhausen GmbH, & Co. Kg., D-7762, Bodma-Ludwigschafen, West Germany.	Expanding fixing plug.
154808	15-1-1982	Do.	Nail plug.
155886	16-4-1981	Toyo Engineering Corporation, of 2-5, Kasaumigaseki 3- chome, Chiyoda-ku, Tokyo, Japan.	Jet layer granulator.
154981	13-1-1982	Trutzchler GmbH & Co. Ag., Davenstrasse 82-92, D-4050, Monchengladbach 3, West Germany.	Device for separation of foreign body being impurities from cotton fibre flanks or flocks.
156311	14-5-1982	Do.	Device for controlling and regulating a Carding machine.
157387	30-11-1982	Do.	A device and method for manufacturing mixed textile fibres.
158614	22-3-1983	Do.	Method of processing fibres for spinning and apparatus therefor.
160935	10-1-1984	Do.	Feed chute for handling fibre flocks in a carding machine.
165515	19-2-1986	12T-Societe Ivoirienne, De Technologie, Tropicale, of B.P. 1137, Abidjan 04-Ivory Coast.	Low power gas generator intended for use with coconut waste or Hevea wood.
164622	16-3-1985	UHDE GmbH, Friedrich-Uhde-Str. 15, 4600, Dortmund, Federal Republic of Germany.	Device for achieving a uniform distribution of the gas flowing radially through catalyst bed.
164492	26-3-1985	Unisearch Limited 221, Anzac Parade, Kensington, NSW 2033, Australia.	A solar cell & method of manufacturing the same.

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153477	6-4-1981	United Technologies, Corporation, 1, Financial Plaza, Hartford, Connecticut 06101, USA.	Wind turbine including drive train.
154485	22-12-1981	Do.	Blade pitch angle control device for a wind turbine generator.
156973	19-10-1982	Do.	A method of forming a tapered filament wound article.
158212	16-3-1983	Do.	A wind turbine system for generating electric power.
158707	5-11-1983	Do.	The blade pitch angle control system for a wind turbine generator.
158792	2-6-1983	Do.	Blade feathering system for wind turbines.
159954	5-11-1983	Do.	A system for minimizing the effect of yaw oscillations in a wind turbine.
164330	17-11-1986	Do.	A variable speed wind turbine.
164700	17-11-1986	Do.	Apparatus for controlling a variable speed wind turbine-generator at improved efficiencies.
166845	27-4-1987	Do.	An apparatus for controlling a variable speed wind turbine-generator at improved efficiency & at other than a critical speed.
167654	24-6-1987	Do.	An aircraft cabin air conditioning system.
154631	10-7-1981	Veb Schwermaschinenbaukombinat. Ernst Thälmann, Magdeburg, 3011, Magdeburg, Marienstrasse, 20, G.D.R.	Method and apparatus for the heat treatment of fine granular material.
167427	20-5-1988	Vijay Ambubhai Shethi, Yellow Building Lipatrai Ward, Town, of Goudia-441614, State of Maharashtra, India.	A method of manufacturing a tool bit for drilling holes having square and higher polygonal cross sections.
162122	30-3-1984	Vöest Alpine Ag. A-1011, Vienna, Friedrichstrasse 4 Austria.	Apparatus for spraying the bits & on the facing with pressurized liquid as well as apparatus for performing this process.
162866	30-3-1984	Do.	Process for cutting rock as well as apparatus for performing this process.
165081	19-3-1986	Do.	Apparatus for charging a shaft furnace for burning carbonaceous mineral material.
167787	25-9-1987	Vöest Alpine Ag. A-4020, Linz, Turnstrasse 44, Austria.	Process for producing frogs of Railway Switches.
154597	30-6-1981	Wagener Schwelm GmbH, & Co., In der Gaslake 20, 5830 Schwelm, F.R.G.	An apparatus for the repair of rubber or plastic conveyor belts and for making them endless.
163193	3-5-1984	Wallace Edwards P.O. box. 1265, Station B, Weston, Ontario, M9G, 2R1, Canada.	Method of manufacturing a printing system suitable for use in printing on a sheet member a realistic image of an original.
164812	28-2-1986	Do.	Method of manufacturing a printing system suitable for use in printing on a sheet member a realistic reproduction of a coloured original.
159297	10-5-1983	Walter Grato Rossi, Plot 164, Montania, Pretoria, Transvaal Province, Republic of South Africa.	Wheel wrench support.

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167030	6-3-1987	Werkzeugmaschinen, Oerlikon-Buechle Ag. Birchstrasse, 155, 8050 Zurich, Switzerland.	An ammunition feed on an automatic firearm
159291	6-4-1983	Werner Weiland Koblenz-Olper-Strasse, 172, D-5413, Bendorf-saya, F.R.G.	A temperature measuring device for defecting the ovulation of women.
164466	31-5-1985	Worldwide Solar Group, (Australia) Pty. Ltd., 84 Norma Road, Myaree, Western Australia.	Solar collector.
159095	21-9-1983	Xerox Corporation, Xerox Square, Rochester, New York, USA.	Copy finishing apparatus.
154124	14-9-1981	Yen Ti Huang, P.E. P.O. Box 31596, Dallas, Texas, 75231, USA.	Modular structure bring a dome-type roof structure.

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for Period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entries is the date of the registration included in the entries.

Class 1. No. 168539, Mrs. Meera Bhatnagar, an Indian national, A 98, Ashok Vihar, Phase II, Delhi-110052, India, "RICKSHAWS", 26th December 1994.

Class 3. No. 168692, Gratings India Pvt. Ltd., 4, 28 East Punjabi Bagh, New Delhi, India, an Indian national, "MIRROR FRAME", 30th January 1995.

Class 3. No. 168022, Pearl Polymers Limited, 704 Rohit House, 3, Tolstoy Marg, New Delhi-110001, India, an Indian company registered under the provisions of Indian Companies Act, 1956 of the above address, "BATTLE", 29th August 1994.

Class 3. No. 167889, Raju Nishikant Joshi, of Opp. KODAK, Cadel Road, Prabhadevi, Bombay-25, Maharashtra, India, Indian, "CAN", 12th August 1994.

Class 3. No. 167732, Jordan A S, a Norwegian Firm, of Heavard Martinsena Vei 30, 0978 Oslo, Norway, "TOOTH BRUSH", 1st July 1994.

Class 3. Nos. 168562 & 168563, Hindustan Lever Limited, registered Office at 165/166, Backbay Reclamation, Bombay-20, Maharashtra, India, "TOOTH BRUSH", 30th December 1994.

Class 3. No. 169098, Irfan Latif Bhanla, Indian national, trading as Blue Lagoon Cosmetics, sole Proprietary concern, whose address is 249/51, Abdul Rehman Street, 3rd floor, Bombay-400003, Maharashtra, India, "BOTTLE", 1st May 1995.

Class 3. No. 169145, General Industrial Controls Private Limited, an Indian company, at T 107, M.I.D.C., Bhosari, Pune-411026, Maharashtra, India, "TIME DELAY RELAY", 9th May 1995.

Class 3. No. 168780, The Procter & Gamble Company, a corporation organised and existing under the laws of the State of Ohio, U.S.A., of One Procter & Gamble Plaza, Cincinnati, Ohio 45202, U.S.A., "TOOTH BRUSH", 6th February 1995.

Class 3. No. 168782, The Procter & Gamble Company, a corporation organised and existing under the laws of the State of Ohio, U.S.A., of One Procter & Gamble Plaza, Cincinnati, Ohio 45202, U.S.A., "TOOTH BRUSH", 6th February 1995.

Class 3. Nos. 169352 to 169355, In Opala Glass Limited, of "USHA KIRAN", 3rd floor, 12A Camac Street, Calcutta-17, W. Bengal, India, "PLATE", 19th June 1995.

Class 4. No. 169356 to 169359, LA Opala Glass Limited, of "USHA KIRAN", 3rd floor, 12A Camac Street, Calcutta-17, W. Bengal, India, "PLATE", 19th June 1995.

Class 4. No. 169099, American Dry Fruit Stores, Registered partnership firm, of Acme Industrial Estate, 3rd floor, Opp. Digvijay Cement Company, Sewri (E), Bombay-15, Maharashtra, India, "BOTTLE", 1st May 1995.

R. A. ACHARYA,
Controller General of Patent,
Design & Trade Marks

प्रबन्धक, भारत सरकार, मुद्रणालय, फरीदाबाद द्वारा मुद्रित
एवं प्रकाशन नियंत्रक, दिल्ली द्वारा प्रकाशित, 1996

PRINTED BY THE MANAGER, GOVERNMENT OF INDIA PRESS, FARIDABAD,
AND PUBLISHED BY THE CONTROLLER OF PUBLICATIONS, DELHI, 1996

